AGRICULTURAL OUTILO OK

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United States Department of Agriculture

April 1991

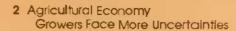
Limited Job Prospects in Food Processing

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April 1991/AO-173

AGRICULTURAL OUTLOOK

Departments





- 16 World Agriculture and Trade Exports To Drop \$3.1 Billion EC Policy: Reform or Tinker? U.S. Has a Competitive Edge
- 23 Farm Finance Farm Income To Drap in 1991
- 25 General Economy Recession Continues
- 28 Rurol Development
 Outlook Dim for Food-Related Job Growth

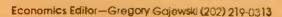
Special Article

31 Sugar: Developed Nations Shift from Buyers to Sellers

Statistical Indicators

- 38 Summary
- 39 U.S. and Foreign Economic Data
- 40 Farm Prices
- 41 Producer and Consumer Prices
- 43 Farm-Retail Price Spreads
- 44 Livestock and Products
- 48 Crops and Products

- 53 World Agriculture
- 54 U.S. Agricultural Trade
- 57 Form Income
- 61 Food Expenditures
- 61 Transportation
- 62 Indicators of Farm Productivity



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News of Farm Income, Exports, Food-Related Job Prospects, the General Economy, EC Policies, and Broiler Futures

S. farmers' net incomes are forecast to drop in 1991 from recent records. While cash receipts are expected to remain near record levels, lower direct government payments and slightly higher farm expenses will pull down net incomes.

Net farm income is forecast to be \$42-\$47 billion, nearly one-tenth below a year earlier. Net cash income is predicted to be \$53-\$58 billion in 1991, compared with \$58 billion estimated for 1990.

Adjusted for inflation, farmers' net cash income likely will drop about 7 percent in 1991 from a year earlier. Still, real income is forecast up 20 percent from the 1984 low, and this year's expected drop is dominated by large supplies and weak demand in two markets—wheat and milk.

U.S. agricultural exports in fiscal 1991 are expected to drop slightly more than \$3 billion from a year ago to \$37 billion, the first drop in nominal terms since 1986. Export volume is projected to decline 18 million tons from 150 million a year ago. Reduced grain exports account for much of the expected drop, following record world wheat production, record grain production in China, and near-record grain output in the Soviet Union.

The drop in wheat export value is due primarily to much lower prices, while the drop in coarse grain exports is mostly a result of smaller volume. Sharply lower world wheat prices are not only reducing the value of U.S. wheat exports, but are also indirectly reducing U.S. coarse grain exports—producers globally are finding it economical to feed wheat to livestock. However, U.S. cotton exports are rising in a bullish market.

For U.S. winter wheat, concerns about dryness and pests in some areas boosted prices in early March. However, prices



are down more than a dollar a bushel from last year, and farmers' January planting intentions indicated that spring wheat plantings will drop more than a tenth. Although U.S. coarse grain exports are forecast down from a year earlier, total use is outpacing last fall's harvest. Farmers likely will increase coarse grain planted area several percentage points this spring.

U.S. retail beef and pork prices probably will rise more slowly in 1991 than in 1990, reflecting expected output gains. And retail prices of dairy and poultry products are forecast to average lower this year.

Food and beverage processors offer limited potential for U.S. rural employment growth in the 1990's. Just four food processing activities can be expected to offer brighter job prospects: poultry dressing, meat packing, cheese processing, and frozen fruit and vegetable processing. Employment will grow in several clusters of rural counties across the country that can provide the raw inputs for these operations. However, employment in the industry as a whole will continue to contract well into the 1990's.

Declines in general economic activity are cutting demand for some agricultural products. U.S. national output has declined since the recession began in the second half of 1990. The recession probably will continue for much of the first half of this year.

Lower inflation rates, interest rates, and crude oil prices will help hold down increases in farm production costs. Still, as the recession ends and the recovery begins, interest rates and the value of the dollar will move up, lifting farm costs and pressuring exports.

Within the EC, a lively debate is occurring over the future direction of the Common Agricultural Policy (CAP). However, formal discussions of some radical reforms that would sharply cut support to large producers have been shelved at least until summer. By that time, the EC Commission will have finalized the 1991/92 price package (comparable to the U.S. farm bill but done annually).

This year's price package likely will carry forward existing policies with only minor modifications. The outcome of the price package and the resolution of the CAP reform debate should show how far the EC is willing to go at the GATT talks.

Trading of broiler futures on the Chicago Mercantile Exchange resumed in early February after a 9-year hiatus, and cash settlements for the contracts were offered for the first time. Daily trading volume averaged 75 contracts during February and trended upward in early March.

When the first contracts expire this April and actual settlement occurs, some misgivings about contract liquidity should be dispelled. Also, as broiler prices enter the typically more volatile second and third quarters, opportunities for hedging may become more apparent.



Growers Face More Uncertainties

J.S. farmers are beginning to plant their spring crops. They go to their fields concerned, as usual, about how much money they will make. However, uncertainty is up about commodity markets and farm income because of changes in federal farm programs, sharp competition in world grain markets, the ups and downs in the GATT talks, the California drought, the end of the Gulf war, turmoil in the USSR, and the recession.

Together, these factors mean most farmers will remain cautious about expanding their operations or making expensive improvements. The uncertainty dampens the urge to buy big-ticket items sometimes needed to grow different crops that are now possible under the new farm act's flexibility provisions. And the uncertainty restrains livestock producers from building up their herds and making the large investments necessary to sharply lift meat output in the long run.

Adjusted for inflation, farmers' net cash income likely will drop about 7 percent in 1991 from a year earlier. Still, real income will be up 20 percent from the

low in 1984, and this year's forecast drop is dominated by large supplies and weak demand in two markets—wheat and milk.

In 1990, world wheat production jumped nearly 10 percent, sharply boosting this year's supply. Wheat futures for September delivery were \$2.95 a bushel in mid-March, compared with \$3.66 a year earlier, so growers will plant less this spring. Last year's large crop was spurred by exceptional weather worldwide, strong early-season prices, and public policies in many countries that favored wheat production.

The price of milk has stabilized far below last year's average. During March-July 1990, users raced to accumulate stocks of cheese and nonfat dry milk, boosting the price of manufacturing milk 12 percent. However, when buyers realized these stocks were unnecessary, prices dropped 24 percent by yearend. Without such a price bubble this year, large surpluses will keep milk prices near support levels.

Oil prices were down to year-carlier levels in mid-March, so forecasts of farm expenses now show only a 2-percent gain from 1990. In inflation-adjusted terms, that's down 2 percent. But real direct government payments are expected down 8 percent, in part reflecting the loss of payment acres under the 1990 farm legislation.

The up side under the 1990 farm act is the new planting flexibility. Farmers are not stuck planting their original program crop on all of their permitted acres to be eligible for program benefits. In fact, they may flex up to 25 percent of their acreage base and plant other crops without losing base history. For example, some farmers with wheat base will shift to planting sunflowers and sorghum on their flexible acres.

Corn farmers are likely to plant mostly corn, a bit more soybeans, and some cotton on their flexible acres. Farmers in the South and West with enough water will boost cotton acreage. However, the reduction in payment acres increases the amount of uncertainty farmers must face—their incomes now depend more

on markets, and market prices never stand still.

Shifting to livestock, beef and pork output are each forecast to rise 1-2 percent this year, but prices may drift down from recent record highs. Poultry output is expected up 5 percent, but prices will drop several percentage points.

With the recession holding down income growth, consumers will take more livestock products out of the marketplace only at lower prices. However, feed prices are dropping this year, and probably will be the lowest since 1987.

Trade & Weather Will Re Critical

Trade and weather surprises have often altered the outlook for farm incomes. This fiscal year, U.S. agricultural export shipments have been lagging, and are expected to reach \$37 billion, down from \$40 billion in 1989/90. The estimate was revised down \$1.5 billion in late February as prospects for coarse grain sales worsened.

Shipments to the Soviets dropped 82 percent in October-December from a year earlier. And exports to the Soviets are more difficult to forecast this year because of questions about the USSR's ability to pay as the Soviet economy continues to contract. In 1989/90, sales to the Soviet Union accounted for over 7 percent of U.S. agricultural exports.

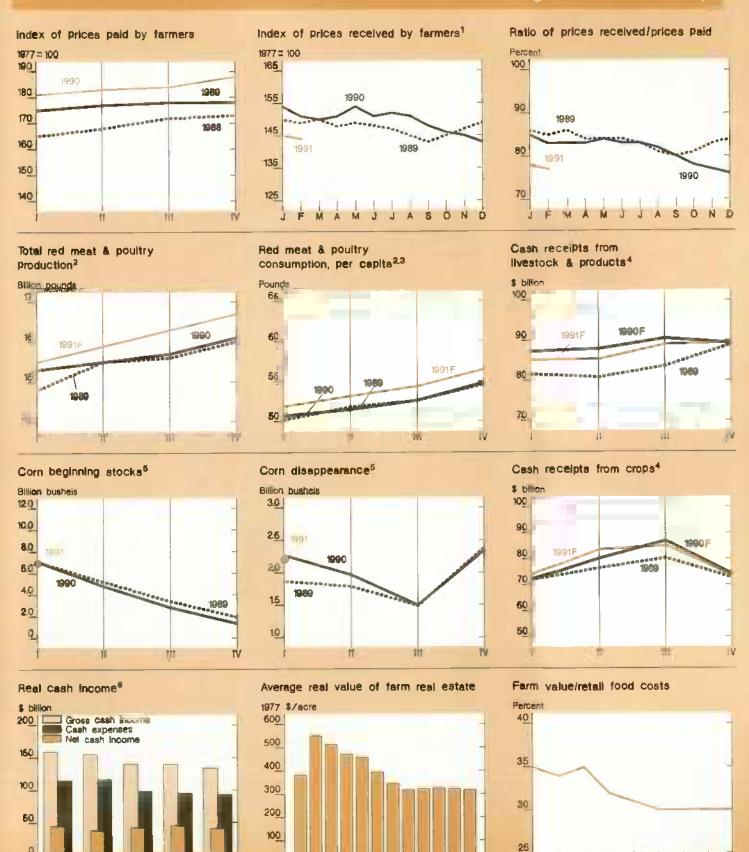
In early December the GATT talks were suspended—the EC refused to open up agricultural trade—and the prognosis for substantial trade liberalization was bleak. But ballooning costs of EC farm subsidies gave some impetus for a reevaluation there of agricultural trade issues. The talks resumed on January 15, and appear to be making some headway.

Failure to reach an agreement could prompt many nations to boost trade barriers relatively quickly, depressing world prices and trade flows. Yet, any agreed-upon cuts in trade-distorting farm supports would be subject to Congressional approval, and phased in over a number of years. With declining payment acres,

April 1991

Prime Indicators

Agricultural Economy



1For all farm products. **Calendar quarters Future quarters are forecasts for livestock, com, and cash receipts. **Retail weight. **Sessonally adjusted annual rate.

**IIIDec.-Feb.; IIIIMer.-May; IIIIJune-Aug;; IVIISept.-Nov. **Cash expenses plus not cash income equals gross cash income. Fill forecast.

'75 '81 '82 '83 '84 '85 '86 '87 '88 '89 '90'91F

1908-90

1900-03

average average average average

flexibility, frozen program yields, and acreage reduction programs, a strong case can be made that most U.S. commodity programs do not encourage excess output headed for the export market.

The changing outlook for soybean production in South America could also shift the domestic income picture. In March, the Brazilian and Argentine crops were expected to fall 11 percent from a year earlier. Dry weather in Brazil accounted for the drop and supported soybean futures prices. And the return of hyperinflation and other financial disruptions in the two countries boost uncertainties about the marketing patterns for their prospective crops.

Depending on how the economic, political, and weather situations evolve in South America, U.S. farmers may vary their plantings of soybeans from what they reported for the intentions surveys. Farmers in South America typically begin harvesting their soybeans in April,

At home, weather concerns will be foremost in farmers' minds until the fall harvest is complete. In California, growers are enduring a fifth year of drought, and agricultural output there will be down. Farmers in the state will grow less field and forage crops—especially cotton, rice, sugarbeets, and alfalfa. California is usually the largest producer of alfalfa, and the second largest producer of cotton, rice, and sugarbeets. With most planting still ahead, it is too early to tell how much output will decline.

Still, many California growers likely will be able to earn a higher return by selling their water instead of growing field crops. Fruit and vegetable output probably will be unaffected, though, as growers divert water from other uses to protect these high-value crops.

While other parts of the nation also have been dry, early-season moisture problems are generally less severe. In late February and early March, however, most of the West and Plains remained drier than normal. And the low soil moisture may slow early planting. The eastern half of the country had adequate to surplus moisture, while too much mois-

ture slowed some early planting in the Delta and parts of the Ohio Valley.

War & Recession To Have a Smaller Impact

The end of the Gulf war will substantially lift that region's trade. For U.S. agricultural exports, however, too many questions remain unanswered to accurately estimate how much of a rebound to expect. In fiscal 1989, the Middle East accounted for 5.7 percent—\$2.3 billion—of U.S. agricultural exports. Iraq alone purchased \$790 million worth, using a substantial amount of U.S.-guaranteed export credits.

U.S. sales to the Middle East fell 12 percent to just under \$2 billion in fiscal 1990, while shipments were down 26 percent in October-December from a year earlier. USDA is forecasting that exports to the region will fall 10 percent this fiscal year.

Concerns about the recession prompted the Fed to substantially ease monetary policy. And regulators are stepping up their efforts to encourage bankers to make new loans to creditworthy applicants. Most recently, accounting rules were eased in the hopes of spurring credit creation. This despite fears that eased regulations could mean another \$&L-style money pit.

The optimism about the Gulf situation in early March also bolstered consumer confidence, which should promote spending. All these factors should mean a return to growth by the third quarter, which would provide a modest lift to the demand for farm-related products. [Gregory Gajewski (202) 219-0313]



Livestock, Dairy & Poultry Overview

As expected, U.S. cattle and calf numbers are expanding, with the inventory up about 1 percent from a year earlier. But the sheep and lamb inventory dropped for the first time since 1986, reflecting low farm prices for lamb.

Breeding hog inventories probably will rise in 1991, although producers have been slow to expand so far during this extended period of positive returns.

Retail beef and pork prices probably will rise more slowly in 1991 than in 1990, reflecting expected production gains. And retail milk and broiler prices are forecast to average lower this year.

Cattle Herd Expansion To Continue

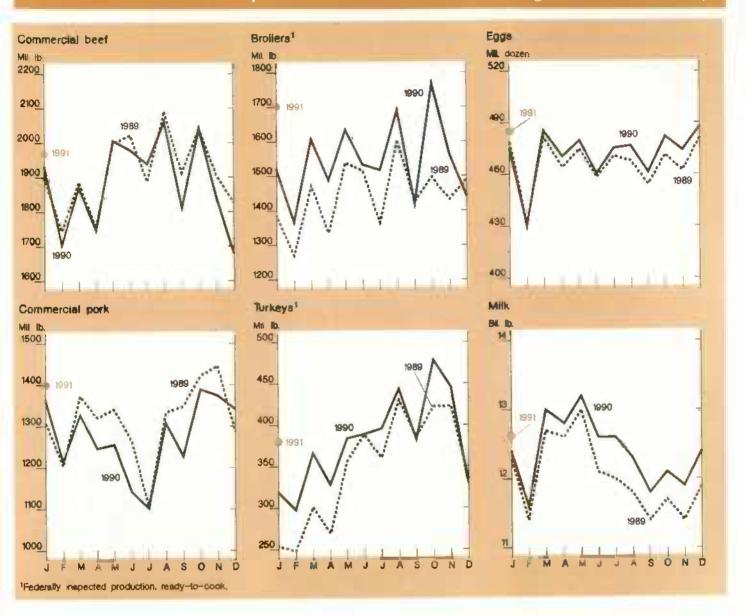
In 1991, the cattle herd is expected to continue to expand because more cows and 3 percent more beef replacement heifers will mean a larger calf crop. The expected modest increase in cattle slaughter will be more than offset by the larger calf crop and continued large imports of feeder cattle from Mexico and Canada.

The January 1, 1991, cattle and calf inventory was reported at 99.4 million head, 1 percent above last year's revised number. The calf crop in 1990 was 39.9 million head, off 1 percent from 1989, and the smallest since 1960. Estimates of each January and July cattle inventory since January 1988—as well as the 1988 and 1989 calf crops—were revised downward.

The largest revision, down about 1.2 percent (1.1 million head), was made to the January 1989 inventory. The revisions indicated that the past cattle cycle's liquidation phase was deeper than previously reported. But 1989 was still the low point of the cycle.

Livestock and Product Output

Agricultural Economy



Retail Choice beef prices in January remained near December's record \$2.95 per pound. Marketing spreads widened sharply during January as live cattle prices declined about \$1 per cwt while retail prices were off slightly.

The wholesale-retail beef spread widened to \$1.25 per pound, up 4.1 cents from a month earlier and 17.8 cents above a year earlier. Farm-wholesale spreads narrowed during January as packers operated with tight slaughter supplies.

In coming months, retail beef prices are expected to continue drifting down as slaughter levels rise from recent lows. But marketing spreads likely will remain

even or widen for a time until retailers increase beef specialing when they are sure supplies have risen. Farm-whole-sale spreads probably will widen as cattle slaughter rates expand and live prices decline faster than wholesale prices.

Cattle slaughter rebounded sharply during the first 2 weeks of January, following holiday schedules. January's commercial cattle slaughter was about 1 percent above a year ago at 654,800 head per week. Last December, commercial cattle slaughter was unusually small, down about 9 percent from a year earlier, and posted the smallest weekly rate in a decade.

Cattle slaughter during first-quarter 1991 likely was down about 1 percent from a year earlier, and the lowest in over 10 years. However, heavier weights at slaughter should have kept beef production about even with a year ago.

On March 1, the number of cattle on feed in the seven monthly reporting cattle feeding states totaled 9 million head, 8 percent above a year earlier—and the highest inventory for that month since 1974. Marketings declined 1 percent, but placements were up 6 percent from last year. Cattle on feed will decline in coming months as marketings exceed placements.

Sheep Inventory Declines

The sheep and lamb inventory at the beginning of the year was down 1 percent, the first decline since 1986. The drawdown is a reaction to continued low Choice slaughter lamb prices, which averaged \$55.54 per cwt at San Angelo for 1990, down 17 percent from a year earlier.

Production for 1991 is expected to be up one-half a percent to 360 million pounds, as producers trim the flock. Sheep producers' returns are now the lowest since the early 1980's, and are expected to stay low this year.

Lamb prices for 1991 are forecast to remain around 1990 levels. Staughter prices in the first quarter likely averaged \$49-\$51. Spring holiday demand pulled prices up towards the end of the quarter. Second-quarter prices are expected to average in the upper \$50's to lower \$60's, before slipping to the low \$50's for the rest of the year.

Hogs To Remain Profitable This Year

Farrow-to-finish hog production was profitable in 1990 and is forecast to remain so in 1991. Cash costs are expected to average around \$40 per cwt of hog produced, capital replacement costs should average about \$6 per cwt, and receipts will top \$50. This normally would encourage producers to expand their breeding herds, though expansion so far has been slow.

Through February, hog prices averaged in the low \$50's, \$3 to \$4 higher than in 1990. However, prices are projected to be lower than a year ago in the second and third quarters as output rises. For all of 1991, hog prices are expected to average in the low- to mid-\$50's, compared with \$54 last year, and pork output is expected to be up about 2 percent.

Estimates of pork consumption on a retail and boneless trimmed basis have been revised. Conversion factors used to adjust carcass-weight pork disappearance to retail and boneless equivalent weights

did not fully reflect the shift to leaner hog production and marketing changes. Research results show that pork consumption, on a retail-weight basis, has been overstated in recent years, while boneless-weight consumption has been understated. Revisions have been made for 1955-91 (see table 10).

U. S. pork imports in 1990 totaled 897 million pounds, about the same as in 1989. Imports from the EC and Hungary were quite strong, but were offset by smaller shipments from Poland, Yugoslavia, and Canada. Danish and Canadian production are expected to increase later this year, helping to boost total U.S. pork imports about 5 percent in 1991.

On February 12, the U.S. International Trade Commission (USITC) noted that its hands were tied by the Binational Dispute Settlement Panel and ruled that U.S. hog producers were not threatened with injury from imports of fresh, chilled, and frozen pork from Canada. In the absence of any appeals, this ruling will mean canceling the countervailing duty and refunding deposits collected by U.S. customs.

But the National Pork Producers' Council announced their decision to appeal the USITC injury ruling through an extraordinary challenge. These challenges are handled on a government-to-government basis. The U.S. Trade Representative now must decide whether or not to raise the issue with the Canadian government.

Live hog imports from Canada totaled 886,277 head in 1990, down 17 percent from 1989. All of the decline was in hogs for slaughter. The number of feeder pigs imported rose 20 percent. In 1991, hog imports from Canada are expected to be virtually unchanged.

U. S. pork exports in 1990 were down to all markets and totaled 238 million pounds compared to 262 million in 1989. This year's exports are likely to increase to about 240 million pounds. More will likely be shipped to Japan and Mexico.

Broiler Prices To Slip Slightly

Second-quarter wholesale prices probably are averaging 52-58 cents a pound, compared with almost 57 cents a year ago, based on a 6- to 7-percent increase in supplies and lower exports. Average prices are expected to remain in the low-to mid-50's for the rest of the year. Retail prices probably will average in the high 80's, slightly below a year earlier.

For all of 1991, output is projected to increase 5-6 percent to about 19.6 billion pounds, influenced by last year's strong net returns. Approximately 5 percent will be exported. Lower prices for broilers relative to other meats, coupled with the increasing availability and variety of processed products, are spurring consumption. Per capita consumption is projected at 74 pounds this year, up from almost 70 pounds in 1990.

U.S. broiler exports rose 40 percent in 1990 to a record 1.1 billion pounds. The USSR accounted for about one-fourth of the total followed by Japan, Hong Kong, and Mexico.

Exports in 1991 are projected to decline about 10 percent from last year. The USSR is facing a very tight export credit situation, and has exhausted all U.S.-supplied credit guarantees. Sales to other markets are expected to be unchanged.

Turkey output rose an estimated 7 percent from a year ago in the first quarter, on top of last year's 22-percent jump. Poult placements from November through February indicate that second-quarter output probably will increase 4-5 percent, compared with 9 percent a year earlier. For all of this year, output is forecast up 5 percent, versus 9 percent during 1990.

A sharp price drop late in 1990 and financial losses by growers since December will restrain production increases this year. Despite moderate output growth, wholesale prices firmed slightly in February, probably in response to slightly lower stocks and prospects of brisk sales during Easter. Eastern region wholesale

turkey hen prices averaged 53-57 cents for the first quarter, and likely are rising to 55-61 cents in the second quarter.

Turkey meat exports increased 32 percent to 54 million pounds in 1990, the highest in 10 years. Largest increases were to Mexico and the Pacific region, which together took nearly 70 percent of the shipments. The outlook points to continued brisk exports to these areas in 1991.

Egg Output To Continue Up

A slightly larger layer flock will produce about 5.7 billion dozen eggs in 1991, about 1 percent above 1990 and the same percentage gain as last year. Hatchingegg production likely will expand 4-5 percent, and table-egg production is expected to increase about half a percent.

Indicators of future flock size—egg-type eggs in incubators and egg-type chicks hatched—show a flock size during first-half 1991 that is only slightly larger than a year earlier. The table-egg flock on February 1 was about the same as a year earlier, as was the total flock of 273.8 million hens.

Second-quarter table-egg output is expected to increase about 1 percent from a year earlier, following a 1- to 2-percent increase in the first quarter. Third-quarter output probably will increase only fractionally from a year ago. Requirements for Easter will subside quickly in the second quarter, and lower prices and returns are expected to follow.

Prices for New York wholesale Grade A large eggs are expected to average 74-80 cents per dozen this year, compared with the record 82 cents of the past 2 years. Second-quarter wholesale prices are expected to average in the low 70's, compared with almost 75 cents a year earlier, Retail prices in 1990 averaged \$1.01 per dozen, about the same as a year earlier. Lower average retail prices are expected in 1991.

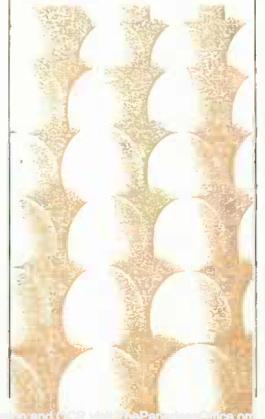
Retail Dairy Prices Are Falling

Retail dairy product prices continue to decline slowly in response to sharply falling farm milk prices. In February, prices dropped 1.3 percent from a year earlier and were unchanged from a month earlier.

The lower farm milk prices expected for 1991 will continue to pull down retail prices. For all of 1991, retail dairy prices are expected to decline 1-4 percent.

Retail prices were slow to follow the drop in milk prices that started in August 1990. Between August 1990 and February 1991, farm milk prices fell more than 20 percent, while retail prices fell about 2 percent. But the sluggish economy will put retailers under pressure to cut prices faster.

For further information, contact: Ken Nelson, coordinator; John Ginzel, cattle; Richard Stillman, sheep; Leland Southard, hogs; Lee Christensen, Agnes Perez, and Larry Witucki, poultry; Jim Miller and Sara Short, dairy. All are at (202) 219-1285



Field Crops Overview

Even with U.S. coarse grain exports down from a year earlier, total use is outpacing last fall's harvest, and ending stocks will drop. With lower Acreage Reduction Program (ARP) requirements and more program flexibility, coarse grain area will rise several percentage points this spring.

For U.S. winter wheat, concerns about dryness and pests in some areas lent support to prices in early March. However, prices are down more than a dollar a bushel from last year and farmers' January planting intentions indicated that total wheat area likely will drop more than 10 percent. The March Prospective Plantings report was scheduled for release on March 28, after this AO had gone to press.

U.S. Feed Use To Set a Record

Despite a forecast 10-million-ton gain in domestic feed grain consumption in 1990/91, sluggish exports are expected to pull total use down from a year earlier. Exports are down because of improved crops in several countries, intense competition from low-priced wheat for feeding livestock in several key markets, and a huge decline in Soviet purchases. Economic and political chaos in the Soviet Union has contributed to a significant deterioration in U.S. trade prospects for 1990/91.

Corn comprises over 85 percent of the coarse grains fed to livestock and poultry in the U.S. Use of corn is expected to rise almost 400 million bushels from 1989/90 to over 4.8 billion—a record.

Feed demand for corn is expected to be up in 1990/91 because of larger numbers of cattle on feed and increased poultry production. However, if farmers follow through with their earlier intentions to reduce the number of sows farrowing, slightly less feed may be needed by hog producers late in the feed year.

Total U.S. corn use (including exports) is forecast to fall below 8 billion bushels, more than 100 million below 1989/90. Nonetheless, consumption continues to outpace last fall's harvest, and domestic ending stocks are expected to drop about 4 percent.

Sorghum disappearance in 1990/91 is below a year earlier. Relatively tight supplies and firm prices likely will hold down sorghum use in the second half of 1990/91. Ending stocks are forecast to fall to only 76 million bushels, down from 440 million in 1988/89 and 220 million in 1989/90.

The last time sorghum stocks were this small was in 1974/75. Farmers' early-January planting intentions suggested a sharp gain in area this spring.

Farm prices for corn and sorghum in 1990/91 are expected to be around 1989/90's \$2.36 and \$2.10 per bushel. Barley and oats prices, however, are forecast down about 30-35 cents each.

U.S. Wheat Prices Are Down Sharply

U.S. farmers are responding to higher ARP requirements and continued low wheat prices by cutting plantings. Winter wheat plantings were down 10 percent, and farmers said they intended to plant 13 percent less spring wheat for harvest in 1991 than a year earlier.

The wheat marketing year will begin in June with inventories of more than 950 million bushels, 80 percent above a year earlier.

Foreign wheat output is likely to drop as well in 1991/92. Less area will be planted in some of the major exporting countries and possibly some of the major importing countries. Wheat yields are unlikely to match the records and near-records set last year. However, relatively large stocks will mean that unless there is a substantial drop in output, U.S. exporters will face another year of intense competition.

Through March 18, wheat prices have not shown their normal seasonal

increase. Wheat prices are forecast to average \$2.55-\$2.65 a bushel for 1990/91, down sharply from the \$3.72 registered during 1988/89 and 1989/90.

Rice ARP To Raise Plantings?

Provisions of the 1991 U.S. rice program were announced on January 30, 1991. To be eligible for program benefits, producers must idle 5 percent of their acreage base, compared with 20 percent in 1990, 25 percent in 1988 and 1989, and 35 percent in 1986 and 1987.

The target price is \$10.71 per cwt, the same as in 1990. The national average loan rate is \$6.50 per cwt, the legislative minimum and the same as in 1990 as well. Advance deficiency payments will be 40 percent of the estimated deficiency payment rate of \$3.76 per cwt.

The 50/92 provision will again be available as in 1986-90. Under this provision, farmers who underplant their maximum-payment rice acreage by at least 8 percent and plant no less than 50 percent of their maximum-payment acreage may receive deficiency payments based on 92 percent of their maximum-payment acreage.

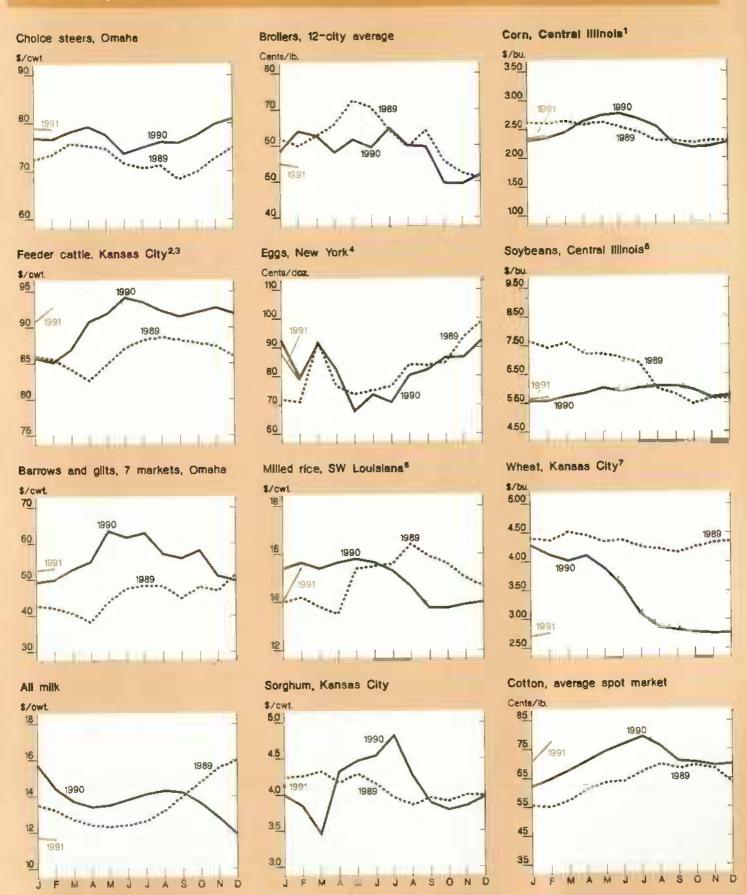
Wheat Output Surges 18 Percent in Two Seasons

| | 1988/89 | 1989/90 | 1990/91 |
|---------------|---------|---------------------|---------|
| | | Million metric tons | |
| RLD | | | |
| Wheat | | | |
| Production | 500 | 537 | 589 |
| Use | 532 | 534 | 563 |
| Exports | 97 | 97 | 93 |
| Ending stocks | 117 | 119 | 145 |
| Com | | | |
| Production | 401 | 463 | 471 |
| Use | 459 | 479 | 473 |
| Exports | 64 | 73 | 59 |
| Ending stocks | 88 | 72 | 70 |
| Soybean# | | | |
| Production | 96 | 107 | 105 |
| Use | 98 | 104 | 105 |
| Exports | 23 | 27 | 25 |
| Ending stocks | 18 | 20 | 21 |
| ITED STATES | | | |
| Wheat | | | |
| Production | 49 | 55 | 75 |
| Use | 27 | 27 | 35 |
| Exports | 38 | 34 | 28 |
| Ending stocks | 19 | 15 | 26 |
| Com | | | |
| Production | 125 | 191 | 202 |
| Use | 133 | 146 | 157 |
| Exports | 51 | 60 | 47 |
| Ending stocks | 49 | 34 | 33 |
| Soybeans | | | |
| Production | 42 | 52 | 52 |
| Use | 31 | 34 | 34 |
| Exports | 14 | 17 | 15 |
| Ending stocks | 5 | 7 | 10 |

Note: Exports of wheat and corn do not Include intra-EC shipments. Data are for marketing years. The wheat year is July/June, and the soybean and corn marketing years are October/September.

Commodity Market Prices

Agricultural Economy



¹No. 2 yellow ²600-700 lbs medium no. 2. ³October data not available. ⁴Grade A large. ⁵No. 1 yellow. ⁶U.S. No. 2, long-grain. ⁷No. 1 HRW.

However, the 50-percent requirement may be reduced if a farmer is prevented from planting due to circumstances beyond his control. Notices have recently been mailed to county ASCS offices explaining how this part of the program works.

The substantial cut in the ARP requirement would ordinarily be expected to encourage growers to plant more rice. However, the 1990 farm legislation reduced the area covered by deficiency payments. High costs for some rice farmers will limit the number of flexible acres planted with rice. As a result, any potential planting gains because of the lower ARP likely will be offset somewhat by reduced plantings on the flexible acreage.

In addition, the ongoing California drought may force growers there to drastically cut rice plantings this year. In 1988 and 1989, California produced 19-21 percent of all U.S. rice and 60-64 percent of medium grain rice.

In 1990, California's share of medium grain production slipped to 57 percent because its farmers increased plantings only 800 acres while growers in Arkansas and Louisiana increased plantings 69,000 acres. And medium grain acreage may increase again in Arkansas and Louisiana in 1991/92.

Brazil Pulls Down Global Bean Output

World oilseed production for 1990/91 is forecast at a record 217 million metric tons. But soybean output probably will drop 2.3 million metric tons. South American soybean output, pressured by area declines in Brazil, likely will drop 2.8 million metric tons from a year earlier. But this offers only a limited opportunity for the U.S. to recapture lost market share.

Brazil's area is down in response to government policies directing farm credit toward food crops. And farmers there apparently have cut back on chemical and fertilizer inputs. Weather has been a factor as well, with severe dryness in Brazil's southern states since mid-

December. So yields are expected to. show a modest drop.

Global demand for soybeans and meal likely will lag last year's. Bean imports by the EC are forecast down 4 percent and the prospects for additional meal imports by the USSR are constrained by a lack of credit. The USSR has already exhausted a major U.S. credit package.

As a result, U.S. exports will be down and stocks of soybeans, oil, and meal will be higher by the end of the marketing year. Although stocks will be up, strong domestic use and declines in foreign inventories are likely to keep the season-average price about even with last season's \$5.70.

Farmers surveyed in early January said they planned to plant 58.5 million acres of soybeans, up 1 percent from a year ago. Actual plantings won't begin until late this month.

Factors that would boost U.S. plantings include a smaller South American crop, signs of a strengthening export market, and lower soybean stocks abroad. Despite new planting flexibility, price fundamentals still favor corn in the Midwest.

Last year's peanut crop was down nearly 10 percent to 3.6 billion pounds, reflecting the effects of drought in the Southeast. The smaller crop is holding down forecast exports to 525 million pounds from last year's strong 989 million.

With half the marketing year over, domestic use of manufactured products like peanut butter and salted nuts is down 5 percent. Last year's production shortfall led the USITC to hold hearings on raising the import quota for 1990/91. The Commission's recommendation is expected on March 22.

Cotton Planting Is Beginning

As planting commences in the far southem portions of the U.S. cotton belt, producers are closely scrutinizing domestic and international events for the impacts on future cotton prices. Continuing strong demand this season is brightening early prospects for the 1991/92 U.S. cotton crop. Exports likely will reach 8 million 480-pound bales in 1990/91, up 4 percent from a year ago. Larger exports are expected to offset a decline in domestic mill use. Ending stocks on July 31 are projected at 2.3 million bales, the lowest in 66 years.

Strong demand for U.S. cotton and continued tight foreign stocks contributed to a dramatic price rise in the U.S. and Northern Europe in February. This may boost interest among nontraditional growers.

But in California, the protracted drought is expected to hold down plantings. Acreage there could drop 20-30 percent below 1990's 1.1 million acres, according to industry estimates. [Jim Cole (202) 219-0840]

For further information, contact: Sara Schwartz, world food grains; Edward Allen, domestic wheat; Janet Livezey, domestic rice; Pete Riley, world feed grains; Larry Van Meir and Jim Cole, domestic feed grains; Tom Bickerton, world oilseeds; Roger Hoskin, domestic oilseeds; Carolyn Whitton, world cotton; Scott Sanford, domestic cotton; Jim Schaub, domestic peanuts. World information (202) 219-0820; domestic (202) 219-0840.



Specialty Crops Overview

Retail fresh fruit prices are expected to remain above a year ago through the spring and summer due to last December's freeze damage in California and a smaller 1990 apple crop. However, fruit and vegetable supplies are not expected to be seriously affected by the California drought.

Domestic sugar use rose almost 4 percent in 1990 from a year ago and was the largest since 1983. Per capita use also was up. Consumption gains are expected to continue.

Although domestic cigarette use remains on the decline, U.S. tobacco output is expanding because of growing U.S. cigarette exports. And economic reform in Eastern Europe and the Soviet Union promise even greater export opportunities.

Fresh Fruit Prices To Remain High

Consumer prices are running well ahead of a year ago due to a smaller apple crop and reduced fresh citrus supplies caused by last December's freeze. The freeze destroyed over half of California's oranges and cut lemon output.

The U.S. average retail price for Red Delicious apples climbed to 81 cents a pound in January, up from 60 cents a year earlier. Navel orange prices climbed 46 percent and lemon prices rose 16 percent in the month following the freeze.

Washington apple production was 6 percent smaller in 1990 than a year earlier because of smaller fruit sizes. Consequently, fresh shipments out of the state were running 13 percent below a year ago as of mid-February. Shipping point prices for Red Delicious f.o.b. Washington (controlled atmosphere storage) averaged 41 cents a pound in January, up from 25 cents a year earlier. Controlled atmosphere storage uses nitrogen to slow respiration of warehoused apples and is superior to regular cold storage in maintaining quality over a longer period of time. Most apples marketed after February 1 are from controlled atmosphere storage.

Retail prices for fresh oranges are expected to remain at record highs through the spring and summer due to smaller supplies of California navel and valencia oranges. California valencias typically are the principal fresh orange available during the spring and summer.

In March, the California valencia crop was forecast at 413,000 short tons, 59 percent below a year earlier and 52 percent less than prospects prior to the freeze.

Florida stepped up its shipments of fresh oranges following the California freeze because of higher fresh market prices and lower processing prices. The Florida Department of Citrus estimates that 13.5 million 90-pound boxes of oranges, or 8 percent of the Florida crop, will be shipped for the fresh market this scason, the biggest share since 1967/68.

The smaller fresh orange supplies likely contributed to higher apple and banana prices. Banana prices increased 2 percent in January from a month earlier.

Retail prices for processed fruit remained relatively unchanged following the California freeze. Lower prices for fruit juices and frozen fruit (primarily frozen concentrated orange juice) continue to offset higher prices for canned and dried fruit.

Vegetables Remain Plentiful Despite the Drought

Although California is the major U.S. producer of many fruits and vegetables, supplies in 1991 are unlikely to be noticeably affected by the state's worst drought

in years (see the Resources article in the March AO). Virtually all of the state's fruits and vegetables are irrigated.

Producers in the southern San Joaquin Valley are the hardest hit by the drought. The San Joaquin is one of California's major fruit and tree nut areas. In addition, it supplies fresh vegetables such as lettuce, broccoli, and carrots during the fall and early winter. However, several characteristics of fruit and vegetable farming in California will limit the drought's impact.

First, California fruit and vegetable producers in the southernmost counties irrigate with water from the Colorado River, which has ample supplies this year, or they pump water from underground wells.

Second, fruits and vegetables are highvalue crops and the returns per gallon of irrigation water used are higher than for field crops such as cotton, rice, alfalfa, and other hay. So, when growers face reduced water supplies, they will divert water from field crops to fruits and vegetables in order to maximize profits.

Specialty Vegetables Gain Popularity

Although the market for specialty vegetables is small, it is the fastest growing segment of the vegetable industry. Supplies of specialty vegetables, including imports, are increasing 12-15 percent a year. The biggest percentage gains in 1989 from a year earlier were among oriental vegetables (29 percent), southern and snow peas (19 percent), and tropical fruits and vegetables (18 percent).

Specialties are variously defined, but generally include herbs and spices, oriental and other ethnic vegetables, tropical fruits and vegetables, and baby vegetables (usually fully ripe miniature varieties).

California, the largest specialty vegetable supplier, reported that production rose 17 percent in 1989. The biggest increases were in oriental vegetables, herbs and spices, rappini, and chili peppers. California reported harvesting nearly 1,300

acres of baby vegetables in 1989. It also was the major supplier of fresh herbs, followed by Florida and Mexico.

Ethnic food stores always have been an important marketing outlet for specialties. But, many high-volume retailers have added specialty sections in recent years to enhance the image of their produce departments. The market for specialties is expected to continue growing as the appeal of unusual items rises and the purchasing power of various ethnic groups expands.

Per Capita Sugar Use Is Rising Again

U.S. sugar consumption in calendar 1990 was the highest since 1983. Confectionery, bakery, and cereal products scored the biggest increases in use. Rising 3.9 percent from a year earlier, sugar use in 1990 is estimated to have been 8.6 million tons, raw value.

After peaking in 1977 at 11.1 million short tons, sugar use fell until 1986. The biggest declines came between 1980 and 1985 when sugar was replaced with high fructose corn syrup (HFCS) in most soft drinks. After 1986, the possibilities for replacing sugar with HFCS in manufactured food products became more limited.

Per capita sugar consumption declined from 94.2 pounds in 1977 to 59.7 pounds in 1986, then leveled off. Currently, per capita consumption shows signs of growing, having increased to 64 pounds in 1990, up from 62.2 in 1989.

Cigarette Exports Drive Tobacco Demand

While domestic U.S. cigarette consumption fell in 1990, output rose 3.4 percent and exports rose 16 percent. Exports to Belgium and Luxembourg showed an especially large gain. Because trade statistics do not show the final destinations, some of the extra cigarettes shipped to those countries probably moved on to other European countries.

Economic reforms in Eastern Europe and the Soviet Union are expected to open

markets to more U.S. products. The bulk of a purchase negotiated between the USSR and U.S. tobacco companies, reportedly involving the sale of 35-40 billion cigarettes over 2 years, likely will be shipped in 1991.

U.S. cigarette consumption fell an estimated 3 percent in 1990 to 524 billion. The decline is expected to continue in 1991 because of health concerns among cigarette users, higher taxes and increased prices, antismoking publicity, the declining social acceptance of cigarette smoking, and further restrictions on where people can smoke.

The national basic flue-cured marketing quota for 1991 is the same as a year earlier (877.7 million pounds) while the burley quota was increased 20.5 percent to 726 million. Because of unused quota carried over from the previous year, the effective quotas for flue-cured and burley are 892 million and 875 million pounds.

The jump in the burley quota reflects a tight supply-demand situation. Undermarketings of burley have risen in recent years as some growers have stopped producing tobacco. Many burley growers have very small quotas and have not been able to afford cost-cutting methods used by flue-cured growers.

Legislation passed in 1990 will for the first time permit the sale of burley marketing quotas within individual counties. In addition, lease and transfer of quotas across county lines is now permitted in Tennessee. As a consequence, undermarketings of burley are expected to decline. Small growers who are not using their quotas are expected to sell or lease them to larger producers. The average size of flue-cured quotas grew after their sale was permitted in 1982. [Glenn Zepp (202) 219-0883]

For further information, contact: Boyd Buxton, fruit; Gary Lucier, vegetables; Peter Buzzanell, sweeteners; Verner Grise, tobacco; Doyle Johnson, tree nuts and greenhouse/nursery; David Harvey, aquaculture; Lewrene Glaser, industrial crops. All are at (202) 219-0883.

Commodity Spotlight



Broiler Futures Trading Resumes

rading of broiler futures contracts at the Chicago Mercantile Exchange (CME) resumed on February 7, 1991 after a 9-year hiatus. And cash settlements for the contracts were offered for the first time. The contracts are a hedging instrument for use by processors, food wholesalers, integrated broiler operators, grocers, food service operators, and others who regularly buy or sell chicken products. The contracts also provide a speculating instrument for traders.

Trading volume in broiler futures contracts likely will grow as their potential becomes better recognized. Many potential participants are still assessing how to incorporate the contracts into their regular business activities. As with any new contract, it will take some time for the broiler futures contracts to become widely understood and used.

While technically a revision of the broiler contract which traded from 1979-82, the addition of the cash settlement feature and the expansion of the broiler industry make it for all practical purposes a new contract. The initiative to

Commodity Spotlight

revitalize the contract came from companies within the broiler industry. It is the first new agricultural futures contract to be traded on the CME since the plywood contract was added in 1981.

A broiler futures contract is a legal contract to buy or sell broilers on a specified date at a specified price. Contracts are traded that mature in 8 specific months: February, April, May, June, July, August, October, and December. The last day of trading for each contract ends at 12 noon, Chicago time, on the second-to-last Friday of the month it matures.

Each contract is for 40,000 pounds (the size of a standard truckload of broilers) of ready-to-cook broiler chicken, with the cash settlement price based on USDA's composite 12-city broiler price. The minimum price change allowed is .025 cents per pound (\$10 per contract) and the daily price movement limit is 2 cents per pound (\$800 per contract) above or below the previous day's settlement price.

Number of Contracts Expected To Rise

The CME recognized that it would take time for daily trading volume to reach

levels that provide sufficient market liquidity. Initial goals were for daily trade levels to reach about 500 contracts as quickly as possible. The number of contracts cleared on opening day was 170—in line with the CME's expectations. Trading volume on the second day was 234 contracts, but then trended lower for the rest of the month.

The number of contracts cleared daily (i.e., bought and sold) during February averaged 75, and the number of open contracts averaged 158. An open contract is a futures contract entered into but not yet fulfilled by an offsetting transaction. Daily trading volume increased in March, and averaged 162 contracts during the first week. Open contracts reached 546.

Several factors will influence the widespread use of the contracts, including a build-up of sufficient daily volume to attract traders, and increased involvement of commercial producers. Trading interest may also be stimulated if there is greater use of the 12-city composite price for regular broiler purchases, rather than the various dock prices such as the Georgia dock.

The 12-city price represents sales to first receivers near the point of consumption

while the dock prices are near the point of production. There is a high correlation between these prices, with the difference reflecting transportation costs. However, there is a strong tradition to use dock prices as the basis for pricing contracts between processors, wholesalers, and retailers. And it likely will take time for the 12-city price to be more widely accepted and written into contracts.

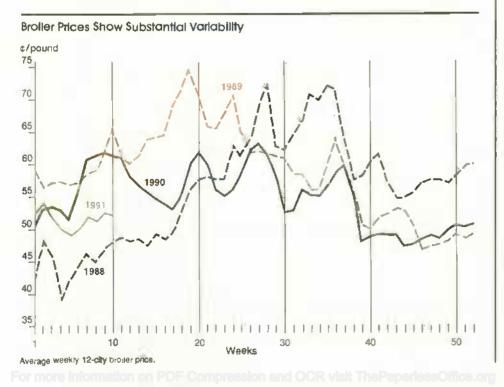
Trading also may increase as the cash settlement feature becomes better understood. When the first contracts expire in April and actual settlement occurs, some misgivings about contract liquidity should be dispelled. Also, as broiler prices enter the typically more volatile second and third quarters, opportunities for hedging and speculating may become more apparent.

New Contract Allows for Cash Settlement

The main difference between this contract and the earlier one is the use of cash settlements. Contracts held to maturity are settled by the exchange of cash rather than by delivery of the commodity as in most agricultural futures contracts. So, persons holding positions at the end of the last day of trading will have added or subtracted from their brokerage accounts amounts equal to the difference between the closing futures price and USDA's composite 12-city broiler price released on the following Monday.

This arrangement assures that the futures price will converge to the 12-city broiler price on the last day of trading and eliminates the need to actually deliver broilers to settle obligations that remain when trading ceases. The feeder cattle futures contract traded at the CME also uses cash settlement.

The 12-city price confirms actual market transactions and is considered reliable and compiled by neutral sources. The price is weighted by the sales volume in three geographic regions of four whole-chicken product categories: U.S. Grade A (including branded), plant grade, chilled pack, and whole birds without giblets. In addition, the price is weighted



Commodity Spotlight

by the population in the three geographic regions, the East, Central, and West.

The old contract was settled only through physical delivery of "iced" broilers, which proved to be cumbersome. There was too much variety in interpretations of product quality and specifications of the product to be delivered. With so many possible variations in weight, color, and location, a fair system of settlement could not be agreed upon. Problems with settlement contributed to low trading volume and the ultimate demise of the contract.

Hedges Cut Price Risk

Trading broiler futures achieves one of two main purposes, hedging or speculation. A hedger actually deals in broilers while a speculator deals only in futures contracts. Hedging is the purchase or sale of a futures contract as a temporary offsetting substitute for a transaction to be made at a later date in the cash market.

Hedges can serve as insurance against the risk of adverse price changes. By taking opposite positions in the futures and cash markets, any loss in one market will be offset by a gain in the other. This is because cash and futures prices tend to move in the same direction and converge as the contract matures.

Hedgers usually raise broilers or are food service businesses that seek to avoid losses in their cash position from changes in price. A hedge can protect, or "lock in," a profit, from producing, processing, storing, and marketing a commodity.

Producers can sell contracts to protect against price declines while food service companies are able to buy contracts to protect against price increases. In contrast, speculators take positions in contracts hoping to profit solely from correctly anticipating changes in price.

Price Volatility Gives Impetus to Futures

Broiler prices can be volatile, presenting considerable price risk to producers and users of wholesale poultry products.

And there are typically wide swings in the average 12-city weekly broiler price.

This volatility represents risks to broiler integrators and processors who previously could hedge only the costs of key feed ingredients, such as corn and soymeal. Broiler futures contracts offer a hedge to reduce broiler price risk and price fluctuations by allowing growing and processing margins to be locked in before actual physical delivery takes place.

The chicken futures contracts also are useful to commercial users who must set menu prices and plan "specials" well in advance of broiler purchases. Exporters can use futures contracts as a temporary substitute for the cash purchase or sale to lock in handling margins. Ultimately, this may allow U.S. broiler exports to be priced even more competitively on the world market. [Lee Christensen (202) 219-0714]



Aquaculture Expected To Grow

scafood products represent one of the few major areas of U.S. food and agriculture with a significant trade deficit, and this deficit is expected to increase over the next decade. Growing domestic demand for seafood, stagnant landings of many wild harvest species, and the relatively slow development of many sectors of domestic aquaculture have contributed to the rising fisheries trade deficit.

Despite efforts to manage wild fish and shellfish populations for their greatest sustained yield, the U.S. is expected to go on consuming more seafood than it produces. During 1980-89, imports of edible fish products rose almost 50 percent to 3.2 billion pounds. So, while edible fishery exports more than doubled to 1.4 billion pounds, the trade deficit rose from 1.5 billion pounds to 1.8 billion.

However, domestic aquaculture will remain a growth industry. This growth also will benefit some rural areas by providing alternative crops and creating new jobs. Growth over the next decade will come from a number of sources:

- Continued expansion of established sectors. Their higher production will come from increases in farm size and productivity.
- Greater efficiency through increased research. New research will allow producers to raise stocking densities, shorten growing times, and lower mortality rates. These changes will drop per-unit growing costs and allow aquaculture to compete more effectively with landed fish.
- Expansion to more species. New species will allow aquacultural operations to expand into new parts of the country.

 Sustained demand growth due to dietary concerns. In addition, higher consumption will be aided by the rising number of outlets actively marketing seafood. The year-round availability and stable prices of aquacultural products are distinct advantages to retail outlets.

Catfish Output Will Continue Up

Grower and hatchery inventories indicate that supplies are ample to continue expanding catfish output in 1991 and into 1992. The large increases in grower holdings of medium and small food-size fish (those that are already at harvestable size) may have placed downward pressure on grower prices in the first quarter, a time when demand traditionally peaks.

Catfish dominate U.S. aquaculture, accounting for about half of the total output, and likely will remain at the top of the industry for some time. Processed catfish production grew from 46 million pounds in 1980 to 360 million in 1990. Domestically, only the salmon, shrimp, and crab catches have a higher value.

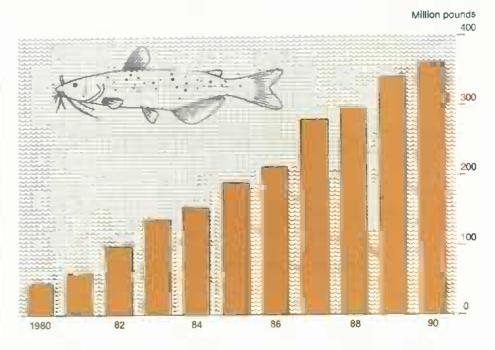
Catfish received by processing plants topped 360 million pounds in 1990, up over 5 percent from the previous year. But this was a small gain compared with the almost 16-percent jump in 1989. Last year's slower growth rate reflected lower farm and processor prices in 1989 and a labor dispute at the largest processor in 1990. Growth in 1991 is likely to be higher.

The continued growth in the catfish industry will require expanding traditional markets and developing new ones. However, developing the export market is likely to be costly.

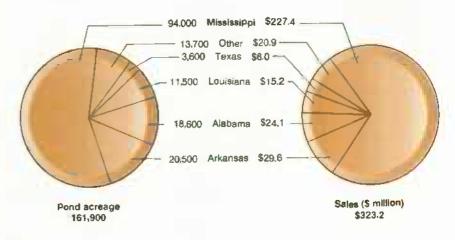
Catfish Prices To Be Flat

The average price paid by processors for farm-raised catfish in 1990 was 77.3 cents a pound (liveweight), 8 percent above a year earlier. Price increases in first-quarter 1990 were due to a pricing





Mississippi Accounts for Over 70 Percent of U.S. Catfish Sales



1990 data.

plan developed by the Catfish Bargaining Association. The plan called for an increase in prices paid by processors. But the Association agreed to lowerprices later in 1990, and prices are not expected to rise this year. After rising 6 percent in 1990 to \$2.24 a pound, average prices for processed products are expected to remain stable in 1991. Between 1980 and 1990, average processed prices increased over 50 percent. But when adjusted for inflation, they rose only 15 percent. However,

Commodity Spotlight

increased efficiency has substantially lowered processors' production costs.

As the catfish industry has expanded over the last several years, its sales makeup also has changed. Frozen products are capturing a growing share of catfish sales. In 1990, sales of frozen products increased 10 percent. This reflects industry expansion beyond traditional markets and the growth of sales to food service and institutional outlets. Given equal quality, people in these markets prefer the longer usable life of frozen products.

Sales also are shifting away from whole products to filleted and "other" products. Sales of whole fish reached 64 million pounds in 1987, but fell to 59 million in 1990. Sales of fillets are the major beneficiary of the move away from whole fish.

Fillet sales should continue to grow with the popularity of microwaveable entrees. Also, fillets are the most familiar form for most people, and are preferred by many restaurants and hotels.

Output Growth Fastest In Texas

Water acreage devoted to catfish production on January 1, 1991, was almost 162,000 acres, up 7 percent from a year earlier. Total catfish sales (hatcheries plus growers) in 1990 jumped almost 20 percent to \$323 million, but are expected to increase at a slower rate in 1991.

Mississippi remains the largest supplier with a substantial majority of both acreage and sales. However, water acreage is growing rapidly in Alabama, Arkansas, and Louisiana. The three states averaged an 11-percent acreage increase in 1990 and are expected to grow at about the same rate in 1991.

Catfish production is also growing in new areas, such as Florida, the Carolinas, and Texas. These states substantially boosted acreage and total sales in 1990. Growth in many of these newer areas has been fueled by new processing plants and feed mills built for catfish. Production is growing the fastest in Texas. During 1990, area there increased from 2,300 acres to over 3,600 and sales shot up from \$1.1 million to about \$6 million.

Except for large food-size fish, inventories held by catfish growers at the beginning of 1991 were well ahead of a year earlier. Most significant were the increases in the medium and small foodsize categories, which rose 27 and 39 percent

When grower and hatchery in ventories are combined, the stocker inventory is up 13 percent and fingerling inventory is up 14 percent from a year earlier. Stockers are longer than 6 inches but weigh less than three-fourths of a pound. Fingerlings are less than 6 inches long.

Ending stocks of processed catfish in 1990 were 9.4 million pounds, up 15 percent from a year earlier. While this is a considerable increase, it represents only about a 20-day supply. All of the increase came in filleted and "other" products; whole fish inventories fell 19 percent. [Dave Harvey (202) 219-0888]



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World Agriculture & Trade



Exports To Drop \$3.1 Billion

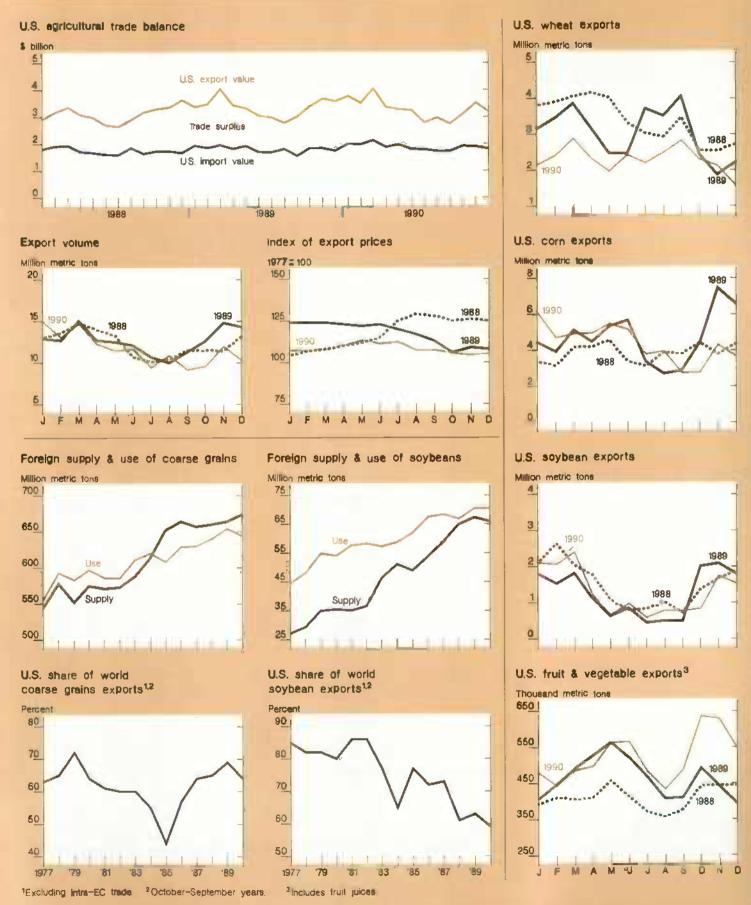
S. agricultural exports are expected to fall more in fiscal 1991 than forecast late last November. Export value is projected to drop slightly more than \$3 billion from a year ago to \$37 billion. This would be the first decline in nominal values since fiscal 1986. (This article is based on a quarterly forecast update released February 27. The next update will be released on May 29.)

From 1981 to 1986, U.S. agricultural exports fell more than \$17 billion. After 1986, favorable changes in exchange rates, overseas economic growth, and U.S. farm policy combined to help drive exports back up to \$40 billion.

Export volume rose from 110 million tons in 1986 to nearly 150 million in 1990. An 18-million-ton drop is forecast for fiscal 1991, the first substantial decline since 1986.

Reduced grain exports account for much of the expected decline, following record world wheat production, record grain production in China, and near-record grain output in the Soviet Union. In contrast,

U.S. Trade Indicators



| Commodity | 1988 | 1989 | 1990 | 1991 |
|------------------------|------|------|-----------------|------|
| | | \$1 | bill ion | |
| Grains and feeds | 127 | 17.1 | 16.0 | 12.6 |
| Wheat and flour | 4.6 | 6.3 | 4.4 | 3.0 |
| Rice | 0.7 | 1.0 | 0.8 | 0.7 |
| Coarse grains | 52 | 7.2 | 8.0 | 6.0 |
| Oitseeds and products | 7.8 | 6.8 | 6.3 | 5.6 |
| Animal products | 6.1 | 6.6 | 6.6 | 6.8 |
| Horticultural products | 3.8 | 4.1 | 5.2 | 5.6 |
| Cotton and linters | 2.2 | 2.1 | 2.7 | 3.0 |
| Total | 35.3 | 39.6 | 40.1 | 37.0 |

exports of high-value products are forecast to reach a record in fiscal 1991. High-value exports will be lifted by continued strong economic growth in some major markets and the historically low value of the dollar.

U.S. agricultural imports are forecast to reach \$22.5 billion, up \$500 million from the November estimate but unchanged from a year earlier. With lower exports, and imports unchanged from a year ago, the U.S. agricultural trade surplus is forecast to fall \$3 billion from a year earlier to \$14.5 billion.

Part of the drop in exports is due to the diminishing effects of the 1988 North American drought, which raised world prices and lifted export values in fiscal 1989 and 1990. Reduced grain output in key countries helped sustain U.S. export volume despite higher prices in 1989. And in 1990, continued record Soviet imports of U.S. corn sustained volume for another year, drawing down U.S. stocks.

During fiscal 1991, conditions are expected to be less favorable. With U.S. wheat production largely recovered from the drought, foreign wheat output at a record 514 million tons, and coarse grain output higher for the second consecutive year, grain prices are falling. Wheat prices especially are expected to be substantially lower during fiscal 1991 than a year earlier.

Wheat & Coarse Grain Exports Are Down

After reaching \$17 and \$16 billion in fiscal 1989 and 1990, U.S. grain exports are expected to fall to \$12.6 billion in 1991. The decline includes drops in wheat, coarse grains, and rice. While rice exports are expected to fall only \$100 million from a year ago, wheat exports may slide \$1.4 billion, and coarse grains, \$2 billion. This represents a decline in wheat and coarse grain exports of 30 and 25 percent from a year earlier.

Sharply lower world wheat prices are not only reducing the value of U.S. wheat exports, but they also are indirectly reducing U.S. coarse grain exports as producers globally find it economical to use wheat for livestock feed. Lower prices are due to the record to near-record output in many countries. Foreign wheat production in 1990/91 is up an estimated 63 million tons from 2 years earlier, and foreign coarse grain output is up 14 million.

In fiscal 1991, U.S. wheat exports are forecast to fall 1.5 million tons to 26.5 million. However, coarse grain exports are expected to slip a little more than 14 million tons to 55 million. Much of the expected decline in the value of wheat exports is due to lower prices, while lower volume accounts for most of coarse grains' drop.

And the sharp rise in wheat output around the world means increased global wheat stocks. Coarse grain stocks will drop slightly. So the average price of U.S. coarse grain exports will fall only

about \$5 per ton during fiscal 1991 while the average price of wheat will drop roughly \$45 per ton. With world price changes favoring wheat consumption, global use of wheat as livestock feed is expected to continue rising, cutting U.S. corn exports.

China & the USSR To Import Less Grain

Record grain production in China and near-record production in the Soviet Union in 1990/91 have weakened the outlook for U.S. sales. Among U.S. customers, the Soviet Union will reduce grain purchases the most due to lower prices and sharply lower Soviet corn imports. Soviet imports are expected to fall by \$1.4 billion to \$1.6 billion.

Coarse grains are likely to account for much of the expected decline in U.S. sales to the Soviets. Several factors explain this expected decline: A near-record Soviet grain crop, prices that favor wheat imports over U.S. corn, and Soviet foreign exchange constraints.

U.S. com exports to the Soviet Union were a near-record and record in 1989 and 1990. A poor Soviet crop and low production in foreign exporting countries boosted U.S. exports in fiscal 1989. In 1990, U.S. corn exports remained strong despite increased Soviet production, largely due to increasing problems the Soviet government had in obtaining output from their producers.

China's record grain crop is adversely affecting U.S. exports to other Asian markets. In Korea, increased Chinese coarse grain sales and increased feeding of wheat to livestock are expected to cut U.S. sales by \$400 million from 1990's record \$2.7 billion.

Increased U.S. cotton exports to China are expected to offset some of the lost grain sales there. China will account for much of the \$300-million gain expected for U.S. cotton exports in fiscal 1991. The value of total U.S. agricultural exports to China is expected to fall by \$200 million to \$700 million.

U.S. oilseed and product exports are forecast to drop \$700 million from a year ago in fiscal 1991. And the volume of U.S. soybean and meal exports is dropping as well. World oilseed markets are experiencing many of the same conditions as the grain markets. Global soybean and meal trade volume is expected to fall, prices are lower for meal, and the U.S. share of world trade is likely to shrink.

Some Exports Are Moving Up

On the other hand, U.S. cotton exports are rising under market conditions almost exactly opposite those facing grains and oilseeds. Prices are up, world trade is higher, and the U.S. share of trade is greater than a year earlier. U.S. cotton exports are expected to reach \$3 billion in fiscal 1991, up \$300 million from a year earlier, and matching 1980's record. Much of the U.S. gain is due to a lack of exportable foreign supplies.

Since the mid-1980's, the three major U.S. competitors have not kept pace with growing world demand. Pakistan has almost doubled its cotton consumption in the last 5 years while its output stagnated. China's production dropped just as its consumption was taking off. And cotton output in the Soviet Union has been flat.

U.S. exports of animal products are climbing from \$6.6 billion in fiscal 1990 to \$6.8 billion. Part of the gain represents a return to pre-1989 conditions. Dairy product exports fell in 1990 because Commodity Credit Corporation (CCC) stocks used in food aid and other government-assisted exports had been depleted. Nonfat dried milk exports fell to \$20 million from \$145 million a year earlier.

CCC stocks of dairy products fell in 1989 and 1990 as higher prices encouraged producers to sell to other buyers. And there were even commercial exports to the EC in 1989, an atypical trade pattern. But during 1990, prices plummeted and the CCC began acquiring stocks again. Increased government stocks will enable food aid shipments of dairy prod-

ucts and other government-assisted exports to rise in 1991.

Horticultural exports are likely to reach a record \$5.6 billion in fiscal 1991, up \$400 million from a year ago. Continued strong demand from Canada, the EC, and East Asian markets are major factors behind this growth. However, some of the expected gain stems from revised U.S. procedures for collecting data on U.S. exports to Canada.

Prior to January 1991, the U.S. used export data to report trade with Canada. These data undercounted shipments to Canada, and horticultural exports were particularly affected. Now that Canadian import data have been substituted for U.S. export data, no undercounting is expected. The previous undercounting makes 1991's growth appear higher than actual shipments indicate, particularly compared with fiscal 1989, when undercounting was at its greatest. [Stephen MacDonald (202) 219-0822]

EC Policy: Reform or Tinker?

In late January, the EC Commission approved a "Reflections Paper" proposing major reform of the Common Agricultural Policy (CAP). The proposal called for sharp cuts in price supports, reduced production quotas, direct income aid to farmers, and increased land setasides. Under the plan, large farms would receive less direct income aid and face stricter land set-aside requirements than small farms.

A number of EC agriculture ministers objected strongly to the Commission's CAP reform proposals. So, in late February, the Commission decided to assemble a 1991/92 price package with only minor overall adjustments.

Still, a majority of the Community's farm ministers strongly opposed the price package because they claimed the price cuts were too large. The Com-

mission's fundamental reforms are now scheduled to be debated this summer after the annual price package has been wrapped up. The outcome of the price package and the resolution of the CAP reform debate should show how far the EC is willing to go at the GATT talks.

Reforms Would Slash Support Prices

In the Reflections Paper on CAP reform, the Commission noted that the EC's post-World War II goal of food self-sufficiency has been surpassed. It also stated that incremental changes to the CAP in 1973, 1978, 1984-86, and 1988 failed to curb supplies, raise farm incomes, or contain budget costs. So the paper called for serious CAP reform.

The paper also reported that the CAP has tended to widen disparities among farmers: 6 percent of the EC's grain farms now account for 50 percent of grain land and 60 percent of the production; 15 percent of the dairy farms produce 50 percent of the milk; 10 percent of the beef farms produce 50 percent of the beef; and 80 percent of the farm budget goes to 20 percent of the farm operators.

The Commission paper said that "...the mechanisms of the CAP as currently applied are no longer in a position to attain certain objectives prescribed for the agricultural policy under Article 39 of the Treaty of Rome, namely to ensure a fair standard of living for the agricultural Community, stabilize markets, ensure reasonable prices to consumers, [and] take account of the social structure of agriculture and of the structural and natural disparities between the various agricultural regions."

The EC Commission's Agricultural Directorate put together a draft package of radical reforms last December. These reform proposals included: cutting support prices for grains 47 percent to 90 ECU (\$122) per metric ton, cutting oil-seed support prices by an equivalent amount, and cutting 15 percent from beef and 10 percent from milk price supports. Milk quotas would have been cut 5 percent. The tobacco and sugar sectors

would also have been reformed on a comparable basis.

Farmers with up to 30 hectares (74 acres) would have been fully compensated through direct income payments and would not have had to set aside land. For larger farms, a progressive scale would have determined how much land to set aside in order to collect direct income payments. The average EC farm is 17 hectares (42 acres), compared with 186 hectares in the U.S.

The paper further recommended measures to encourage environmentally sound farming practices and increased payments to farmers leaving the land. It did not specifically mention changes in border protections or export subsidies.

Specifics Were Removed & Debate Postponed

By the time the EC Commission met with the farm ministers on January 20 to formally unveil the proposal, these detailed cuts had been eliminated. The thrust of the reform package remained, though somewhat blunted.

Farm ministers of the UK, the Netherlands, and Denmark have voiced strong opposition to the proposed reforms. The three countries have some of the EC's largest and most efficient farms, and the ministers said that such reforms would discriminate against the biggest producers, thereby reducing the EC's ability to compete on world markets.

France's minister, reflecting his country's mix of efficient and marginal farms, had mixed views on the proposal, and was more critical of details than principles. Farm ministers from Germany, Ireland, and the Mediterranean countries substantially agreed with the reform proposal because it would protect their many small and part-time farmers.

However, the main EC farm organizations attacked the proposal as misguided. They said that price policy must remain the primary means of income support for farmers. And the groups want socialstructural measures to maintain family farms and preserve the environment. The EC's farm ministers met on February 4 to debate the proposed reforms but refused to endorse the proposal. EC Agriculture Commissioner Ray MacSharry was asked instead to prepare something that would provide the basis for this year's farm price package (akin to the U.S. farm bill, but done annually).

EC Considers A Modest Price Package

The EC Commission issued its proposed package of price supports and related measures for the 1991/92 marketing year on March 1. Expressing the desire to keep the price package debate from affecting the debate on CAP reform, the Commission proposed a basic carryover of 1990/91 policy measures with some adjustments for those sectors with the most pressing surpluses.

According to the Commission, the market situation for EC farm output deteriorated rapidly during 1990 and into 1991. EC commodity surpluses and budgetary pressures returned after a couple of years of reprieve. By the end of January, intervention grain stocks totaled 16.1 million tons (18.6 million tons, if amounts under offer are included), beef stocks exceeded 700,000 tons, and butter and skim milk powder stocks grew to 253,000 tons and 333,000 tons.

While the Commission noted that stocks from farmers in what used to be East Germany lifted the EC's stocks, it acknowledged that the major problem continues to be that production outstrips demand.

Burgeoning output is putting pressure on the EC's agricultural budget. The Commission estimates that unless corrective measures are taken, agricultural support in 1991 will rise by almost a third to a record 33.4 billion ECU (\$43.4 billion), with another substantial increase likely in 1992.

This would push agricultural support spending 880 million ECU above the budgetary guideline of 32.5 billion ECU set for 1991. The guideline, which was established in 1988, limits growth in agricultural support spending to 74 percent of the growth in the EC's gross domestic

product adjusted for inflation. The guideline cannot be breached unless the Council passes legislation authorizing such action.

To remedy the budgetary crisis in the short term, the Commission proposed certain corrective measures for the 1991/92 price package. For cereals, the biggest changes are a 7-percent cut in the support price for durum wheat, a doubling of the coresponsibility levy (for sales off farm) to 6 percent, and an exemption from the levy for farmers taking 15 percent of their land out of production in 1992.

For oilseeds and protein crops, the package would cut support prices 3 percent, eliminate the quality bonus and monthly increments for peas and field beans, eliminate the premium for double-low rapeseed, and cut the aid for dried fodder by 20 percent. For sugar, the Commission proposed a 5-percent cut in the basic sugar beet price and in the white sugar intervention price.

The milk quota would be cut 2 percent, and butter purchases would begin at 92 percent of the intervention price. For beef, intervention and "safety net" provisions would be merged. Beef intervention purchases would be triggered when the average EC price fell below 80 percent of the intervention price, and would be made only in regions where prices were below 76 percent of intervention. The ceiling on beef purchases would be removed.

For lamb and mutton, a 2-percent cut in the support price would be offset in less favored regions by an increase in the ewe premium from 4 ECU to 5.5 ECU per head.

Tobacco support prices and premiums would be cut 10 percent on average, depending on the variety. Wine support prices would be maintained, but the support distillation price would be dropped from the current 82 percent of the guide price to 70 percent.

The price package calls for some changes in the Agrimonetary system. These would be in line with a policy established in 1988 to reduce or

GATT Talks To Resume

A group of key GATT participants, including the U.S. and the EC, met in Geneva in late February and signed an agreement pledging to negotiate "specific binding commitments" in each of the three areas of agricultural support: internal support, import protection, and export subsidies. The agreement will allow the formal trade negotiations to resume by ending the deadlock over agricultural trade reform.

At a meeting of trade and agricultural ministers that was to have marked the end of the Uruguay Round, the EC rejected a compromise proposal that would have required it to reduce export subsidies or the volume exported with subsidies. The EC's reluctance to negotiate separate commitments on export subsidies contributed to the breakdown of the trade talks in December.

The U.S. and other participants said they would not resume the talks unless the EC demonstrated a commitment to agricultural trade reform. The agreement reached in late February

provided evidence of the EC's commitment to proceed on agricultural reform, as well as sufficient evidence of progress in the talks to allow U.S. negotiators to ask Congress for an extension of the "fast-track" negotiating authority.

U.S. fast-track negotiating authority will expire on May 31, 1991. Under the fast-track provision, Congress must approve or disapprove any agreement presented to it without amendment. Fast-track authority is critical to successfully completing a trade agreement, which involves a carefully negotiated balance of tradeoffs among participants.

Without the fast-track authority, any agreement reached in the GATT would be subject to amendments during the Congressional approval process that could unravel the entire agreement. President Bush sent a formal request for a 2-year extension to Congress on March 1.

Congress has 3 months to consider the request. If approved, the extension would provide fast-track negotiating authority for both the Uruguay Round trade talks and the proposed U.S.-Mexico free trade agreement. [Mary Anne Normile (202) 219-0610]

eliminate monetary gaps between member countries (the differences between market exchange rates and special "green" agricultural exchange rates). Removing the gaps would further the EC's goal of harmonizing support prices across member state borders.

Little Impact Is Expected

According to the Commission's estimates, the net effect of the price proposal across the 12 member countries would be a 0.2-percent cut in support prices in ECU terms, ranging from a 0.8-percent cut in Italy to a 1.5-percent rise in Spain. After converting the support prices into national currencies at green rates, support prices on average would decline 0.1 percent in 1991/92, ranging from a 0.8-

percent decline in Italy to a 3.1-percent increase in Greece.

Moreover, these proposed measures are not expected to curb the EC's surpluses. Farmers will boost yields and bypass the higher grain levy by feeding more of their own grain to their own livestock.

In terms of the budget, the Commission's price package proposal would mean savings of 540 million ECU in 1991 because of the lower proposed support prices. Separate measures, including a carryover of 648 million ECU in credits from the 1990/91 budget and a "supplementary budget" equal to the budget shortfall, also will be necessary to keep 1991 accounts within the agricultural guideline, according to the Commission's document.

Agriculture Commissioner MacSharry noted that the proposed 1991/92 package was designed to deal with the current budget crisis and commodity surpluses. The more radical policy reform proposals that drew the wrath of the EC farm ministers in February have been put on hold until this year's price package has been wrapped up.

The Commission has requested that the Council move on the price package by the end of April. The debate over the proposed price cuts and related measures is expected to be lively, and may be a prelude to the upcoming CAP reform talks expected this summer. [Walter H. Gardiner (202) 219-0610 and Katherine C. Nishiura (202) 382-1329]

U.S. Has A Competitive Edge

bundant fertile land helps give U.S. farmers the edge in some agricultural commodities and helps explain the general pattern of U.S. agricultural trade. A fundamental theory of international trade asserts that a nation has a comparative advantage in exporting those goods that intensively use its abundant resources over goods that intensively use its scarce resources.

Research shows that U.S. agricultural exports are more land intensive than its imports. Crops with high land-to-output requirements such as wheat, corn, and soybeans figure prominently in the nation's agricultural exports but not in its imports. The research is based on data from 1987, the most recently available with the required level of detail, and excludes U.S. trade in noncompetitive items like bananas and coffee.

Each \$1 million of agricultural exports used some 3,500 harvested acres, compared with less than 800 acres for agricultural imports. U.S. agricultural exports used some 118 harvested acres per worker, compared with 26 acres per worker for its agricultural imports.

So What?

Because low-income nations, as well as the USSR, tend to import land-intensive products, efforts that address developing nations' debt burdens and other economic problems are likely to lead these nations to increase their imports of land-intensive goods. If these markets grow, U.S. producers probably would supply a large share of those purchases.

The land intensity of U.S. agricultural exports to major customers differs. Varying endowments of land across trading partners account for much of this difference. For example, U.S. agricultural exports to land-scarce Japan and Western Europe used more than 100 harvested acres per worker. In contrast, exports to land-abundant Canada and Australia used under 50 acres per worker.

Because the estimates of factor intensities are based on data measuring actual trade flows, they include the distortions caused by trade barriers. These distortions affect the size but probably not the direction of the estimates.

The land intensity of U.S. agricultural trade also underscores current attempts

to promote freer agricultural trade. U.S. agricultural exports provide an outlet for the productive capacity of the nation's farmland. In the long run, freer agricultural trade would allow U.S. farmers to benefit more fully from this advantage, bolstering land values and farm incomes.

Factor intensity is a measure of the factors of production used (land, labor, and capital) to produce a unit of output. U.S. agricultural exports totaled \$29 billion in calendar 1987. An estimated 107 million harvested acres were used to produce those exports, comprising more than one-third of total harvested acreage that year.

U.S. agricultural exports to Japan alone used nearly 19 million harvested acres. Exports to Western Europe used about 20 million acres. Sales to the Soviet Union and Mexico used 6.8 million and 4.4 million acres.

Exports of raw farm products accounted for the bulk of the harvested acreage used for exports. Food grains, feed grains, and oil crops used more than three-fourths of the acres used for producing U.S. agricultural exports. Exports of processed agricultural products, however, also used significant amounts of land. For example, feed and

flour products accounted for more than 4 million acres and vegetable fats and oils nearly 5 million acres.

Some 884,000 U.S. workers were used to produce U.S. agricultural exports in 1987. About 40 percent were farm workers and 7 percent were in agricultural services. Workers in food processing industries represented another 6 percent of the total.

Much of the supporting labor demand, however, occurred outside agriculturally related industries. For example, about 19 percent worked in the transportation and trade industries, moving agricultural products and the inputs required to produce them through the various stages of production and distribution. Another 28 percent worked in other industries throughout the economy, such as petroleum refining and container manufacturing.

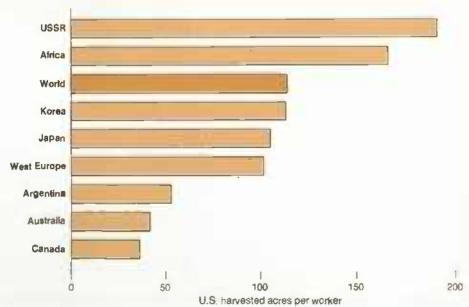
Sales to Canada Use Less Land

The amount of cropland needed for agricultural exports depends on the volume and composition of those exports. For example, U.S. agricultural exports to Canada and South Korea in 1987 each totaled \$1.8 billion. However, exports to South Korea used more than 7 million harvested acres, compared with less than 2 million for Canada.

Food grains, feed grains, and oil crops—all crops that use land intensively—were prominent among exports to South Korea. Exports to Canada, however, were largely vegetables, fruits, and nuts—crops that are less land intensive and have higher values.

Moreover, the volume and composition of exports depend largely on the income levels and resource endowments of customer nations. As a nation's income rises, it spends a smaller share on bulk food products. And at low income levels, a country is likely to spend a large share of its food bill on food grains, such as rice and wheat. High-income nations also spend a larger share of the food budget on high-value products, such





1987 data

as fruits and vegetables, meat products, and other processed foods.

These consumption patterns are reflected in U.S. exports. For example, in 1987 food grains made up 40 percent of U.S. agricultural exports to Africa, 12 percent of agricultural exports to South Korea, and only 1 percent of those to Western Europe. In contrast, exports of vegetables, fruits, and nuts comprised less than 2 percent of U.S. agricultural exports to Africa, compared with 8 percent of those to Western Europe.

South Korea shows how consumption changes as per capita income rises. Between 1977 and 1987, food grain imports fell from 22 to 12 percent of total agricultural imports from the U.S., while meat imports rose from 12 to 33 percent. [Chinkook Lee (202) 219-0785 and Darryl Wills (617) 451-5491]

About the Model ...

An input-output model of the U.S. economy was used to estimate the factor intensity of U.S. agricultural trade. The model traces the intermediate flows of goods and services between industries that support the final production of agricultural exports. Using trade data from USDA and information on land, labor, and capital used by each industry in the economy, the model provides estimates of the amount of each factor used to produce agricultural exports.

The same model was used to estimate the factor intensity of U.S. agricultural imports, as if those products had been domestically produced.

Because the model captures the flows of intermediate products between industries, the farm commodity content of a processed agricultural product can be estimated along with the acreage used to produce it. The analysis also reflects the technology and transportation system that existed in 1987. The detailed analysis is in Factor Intensity of U.S. Agricultural Trade, Agricultural Economic Report Number 637, USDA-ERS.

Farm Finance



Farm Income To Drop In 1991

armers' net incomes are forecast to drop in 1991 from recent records. Cash receipts are expected to remain near record levels, but slightly lower direct government payments and higher farm expenses will pull down net incomes.

Net cash income is forecast to be \$53-\$58 billion in 1991, compared with \$58 billion estimated for 1990. Net farm income is forecast to be \$42-\$47 billion, nearly one-tenth below a year earlier.

Earlier estimates of net cash income for 1990 were lowered by \$1 billion because receipts were lower than expected. The \$49-billion estimate of 1990's net farm income did not change, however.

Net farm income measures the value of production plus government payments less all costs in a calendar year, while net cash income reflects commodities sold in a calendar year plus government payments less out-of-pocket costs. Net farm income includes some noncash revenue and expense items such as the value of unsold commodities, the imputed rental

value of owner-occupied housing, and depreciation.

Expenses Down From Earlier Forecasts

Although farm expenses are expected to be up 2 percent from 1990, the total, at \$146-\$151 billion, is down about \$3 billion from prior forecasts. Prices of some production items, most notably fuels, as well as farm wage rates and interest rates, are expected to be lower in 1991 than previously anticipated. In addition, feed prices have been drifting downward and the feed price index is likely to be the lowest since 1987.

Crude oil prices have fallen sharply since January, and are now expected to average \$21.50 per barrel during 1991, rather than \$28 as previously assumed.

Combined with expectations of only minimal changes in planted area, the forecast for fuel and oil expenses was lowered by \$600 million from earlier forecasts. Because fuel prices and acreage of major crops are now projected to be about the same as a year ago, outlays for fuel, as well as for fertilizer and pesticides, are not likely to increase more than 1-2 percent from a year ago.

Recent declines in market interest rates were reflected in a 4-percent drop in the index of prices paid for interest. However, interest expense forecasts for 1991 are only slightly lower (\$200 million) than prior forecasts because the average effective interest rate on outstanding debt changes more slowly than market rates. In addition, the expected index value of farm wage rates came down 3 percentage points from earlier forecasts and is now the same as in 1990.

The value of the change in inventory for 1990 rose \$1 billion from prior forecasts. The increase was due to preliminary, state-level sales data indicating that the proportion of both eorn and soybeans harvested in the fall and marketed before the end of 1990 was lower than expected.

Thus, more production probably remained in inventory, increasing 1990 noncash income. As a result, net farm

Farm Finance

income for 1990 was \$49 billion, 5 percent above 1989.

Record Cash Receipts In 1990 and 1991

Commodity receipts are forecast to total \$165-\$170 billion in 1991, near the record \$167 billion estimated for 1990. However, this forecast is down from the first projections released in November.

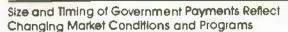
Crop sales are forecast to be \$77-\$81 billion, compared with \$78 billion in 1990. But livestock sales are expected to be down about 2 percent from the \$89 billion estimated for 1990.

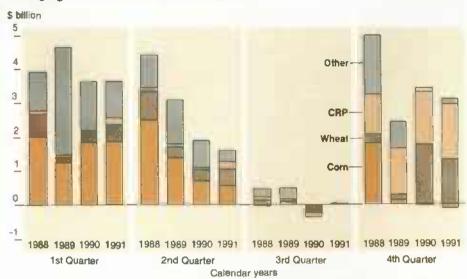
Cattle prices for 1991 are forecast to average \$75 per cwt, about the same as a year ago. With production increasing 2 percent, cash receipts are likely to be no more than 2 percent greater than a year ago. Hog receipts are expected to be slightly lower in 1991, as a 3-percent price decline is partially offset by a 2-percent rise in marketings.

Receipts for all poultry and eggs are projected to be up 5 percent from 1990. Average prices for broilers and turkeys are forecast down 1-2 percent, with production gaining 5-6 percent. Cash receipts for dairy products are expected to drop 10-15 percent in 1991, as increased production puts downward pressure on milk prices.

Demand for cash grains has weakened in the last few months as exports and live-stock inventories failed to meet expectations. However, feed grain receipts are still likely to climb 5-10 percent from 1990. While soybean receipts are projected to be about the same as a year ago, wheat receipts are likely to fall more than 20 percent, slipping below \$6 bitlion for the first time in 3 years.

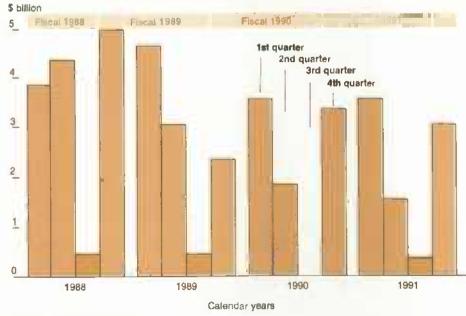
Price forecasts for wheat, corn, and soybeans have dropped in the past several months. Last fall, wheat and soybean prices expected in calendar 1991 averaged 10 percent higher than current forecasts. Corn prices are now averaging nearly 10 cents less than in October. And corn prices are likely to average





1990 estimated, 1991 forecast "Other" is primarily disaster payments and deficiency payments for other commodities. In third-quarter 1990, refunds of overpayments were greater than payments disbursed, so farmers actually refunded more than the government paid out.

Government Payments Are Smallest in the Third Quarter



1990 estimated, 1991 forecast

\$2.30 per bushel for 1991 compared with \$2.40 last year.

Since the December freeze in California, the fruit price index has risen over 8 percent and output has declined 3 percent. For the year, the price index is forecast to be 7 percent above 1990, and fruit

cash receipts also are expected to increase 7 percent.

Crop receipts for 1990 rose \$1 billion from prior estimates, and probably reached \$78 billion. up 3-4 percent from 1989. Preliminary estimates show that 1990 livestock receipts totaled \$89 billion.

Farm-Finance

lion, \$2 billion less than previously expected, but 6 percent higher than a year earlier.

Direct Payments To Drop in 1991

Direct government payments in 1991 are forecast down about 5 percent from a year earlier. In 1990, payments probably dropped 15 percent (\$1.5 billion).

Total direct payments to farmers, plus net Commodity Credit Corporation (CCC) loans, are likely to rise to 5 percent of gross cash income in 1991. After peaking at just over 10 percent of gross cash income in 1987, direct payments plus net CCC loans dropped annually, reaching 4 percent in 1990.

The first forecasts of direct payments that incorporated provisions of the 1990 farm bill and budget legislation were presented last fall. Since then, grain prices have generally declined, and projected deficiency payments have risen \$500 million. Projected deficiency payments for wheat and corn are up 8-10 percent from the first forecasts.

Lower grain prices imply higher deficiency payments for two reasons higher participation rates and higher payment rates. Farmers are more likely to sign up for the commodity programs when the benefits of income protection outweigh the perceived cost of planting restrictions. Payment rates increase as the gap between target and market prices widens.

Advance payment rates for the 1991 programs have been announced, but enrollment is not yet complete, so the actual participation rates are unknown. The 1991 payment projections are based on an assumed, overall participation rate of nearly 80 percent, about the same as last year, and will decrease if participation rates are lower.

Program participation for 1991 is more difficult to gauge than usual, in part because of uncertainty about farmers' responses to provisions of the new farm act. Incentives to participate are mixed: lower market prices and increased plant-

ing flexibility encourage participation, but the reduction in payment acres and, for some crops, increased Acreage Reduction Program requirements discourage participation.

Government Payments Are Lowest in Third Quarter

Total payments are frequently reported for a fiscal year, and therefore do not correspond to calendar year income measures. Total direct payments received in each quarter for the last 3 years, plus projections for 1991, are shown in the accompanying graphs.

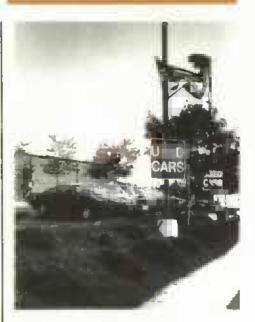
In the fourth quarter of the calendar year (the first quarter of the next fiscal year), payments varied from \$5 billion in 1988 to \$2.5 billion in 1989. This variation tends to obscure any systematic relationship between calendar and fiscal year accounting.

Major sources of variability in the fourth quarter have been 5-month wheat payments (over 75 percent of total wheat payments in 1990), and 12-month corn payments (30 percent of total corn payments in 1988). Conservation Reserve Program (CRP) payments have had a stabilizing effect on fourth-quarter payments. Over 80 percent of CRP payments in the last 3 years have been made in the fourth quarter.

Not only have CRP payments largely been confined to a single quarter, they have been much less variable than deficiency payments. Disaster payments can contribute to variability in any quarter because they relate to random events. Disaster payments were 25 percent of total payments in the fourth quarter of 1988 and nearly 35 percent of the total in the first quarter of 1989.

During the last 3 years, payments have been lowest in the third calendar quarter. In 1990, refunds of overpayments were greater than payments disbursed in the third quarter, so farmers actually refunded more than the government paid out. [Diane Bertelsen (202) 219-0807]

General Economy



Recession Continues

eclines in general economic activity are cutting demand for some agricultural products. U.S. national output has declined since the recession began in the second half of 1990. The recession probably will extend through much of the first half of this year.

While there are significant costs associated with the recession, benefits likely will include reduced inflation and lower interest rates. Also, the currently low exchange value of the dollar should promote U.S. exports and reduce the severity of the downturn. The dollar is down nearly 50 percent from its 1985 peak.

Uncertainty about future economic growth eased somewhat with the successful end of Operation Desert Storm. This should promote more stable oil prices and bolster consumer confidence. These factors should keep the recession mild and reduce its negative effects on U.S. farmers.

While there are risks the recession will deepen, most forecasters believe it will be mild by historical standards. The Administration's forecast and the consensus of a recent survey of private-sector

General Economy

economists suggest that real GNP will fall just over I percent from the peak late last summer to a trough in the middle of this year. This expected decline is smaller than the average decline of over 3 percent during the past three recessions.

The risks of a deeper recession come from the financial side of the economy. Specifically, the risks increase if credit restrictions tighten, if bank and S&L failures heighten financial instability, or if the currently high corporate and consumer debt burdens trigger a large increase in loan defaults.

If crude oil prices, inflation, and interest rates remain low, farm production expenses will be kept down. However, recessions and slow growth in other countries will constrain U.S. agricultural exports. Even so, lower interest rates, softening inflation pressures, and a low value of the dollar should help keep exports competitive.

As the recession ends and the recovery starts, interest rates and the value of the dollar could be pushed up. This would increase farming costs and pressure exports.

Declines Are Widespread

Statistics revealing the downturn continue to be released. The revised estimate for real Gross National Product (GNP) showed that the economy shrank at an annual rate of 2 percent in the fourth quarter of last year. Extreme weakness at the end of the year pulled real growth for all of 1990 down to 0.9 percent, compared with 2.5 percent in 1989 and 4.5 percent in 1988.

Weakness in the economy during the last quarter of 1990 was spread across various sectors. Interest- and credit-sensitive spending was particularly hard hit. Real consumption spending fell 2.9 percent at an annual rate, and investment dropped 9.2 percent. Declines in business inventories accounted for two-thirds of the drop in investment. Inventories usually drop sharply during recessions.

Labor markets also felt the impact of the recession as civilian employment fell by 1.2 million jobs between last June and February, and the civilian unemployment rate rose from 5.3 to 6.5 percent. A significant decline in manufacturing activity led to a 4-percent dropoff in industrial production. Capacity utilization fell from 84 to 79 percent.

The economy's performance in the first quarter of 1991 probably was quite weak. In January, inflation-adjusted personal disposable income fell 0.9 percent and inflation-adjusted consumption expenditures fell 1.1 percent. People mostly cut their purchases of durable goods, especially automobiles.

Investment in new homes continued to drop in January—housing starts fell to 850,000 units at an annual rate—the lowest since the 1981-82 recession. In February, though, housing starts rebounded to 989,000 units.

Economic Calm After Desert Storm?

The recession followed several years of relatively tight monetary policy. The Federal Reserve had been concentrating on reducing inflationary pressures. Credit constraints, high debt levels, and the uncertainties surrounding the Persian Gulf situation also significantly contributed to the weakness in the general economy.

Since last August, the Persian Gulf situation and the price of oil have been key factors affecting inflation, interest rates, and the general economic outlook. Crude oil prices surged from about \$17 per barrel in July to more than \$35 at one point in November.

Inflation, measured by the change in the Consumer Price Index (CPI) over the previous year, jumped from 4.8 percent in July to 6.3 percent in October. Yields on long-term U.S. Treasury bonds increased from less than 8.5 percent in July to nearly 8.9 percent in September.

Many of these problems have diminished. From November to mid-January, crude oil prices drifted down to about

\$30 per barrel. After the outbreak of war and Operation Desert Storm, oil prices defied many experts' pre-war predictions of dramatic increases and fell below \$20. By the middle of February, long-term U.S. Treasury bonds fell below 8 percent. And a military victory led to an informal cease-fire, bolstering consumer confidence.

Inflation pressures remain somewhat stubborn, though. Despite lower crude oil prices and a weak economy, the CPI advanced about 5.3 percent in February from a year earlier. The underlying rate of inflation over the past year—based on the CPI excluding food and energy prices—was also a relatively high 5.6 percent in February.

While federal excise taxes on alcohol and cigarettes implemented on January 1 accounted for some of the continued inflation, service price inflation has been particularly intractable, rising 6.3 percent over the past year.

Consumer food prices were up 3.2 percent in February from a year earlier, below the overall inflation rate. For all of 1991, food prices are expected to rise 2-5 percent.

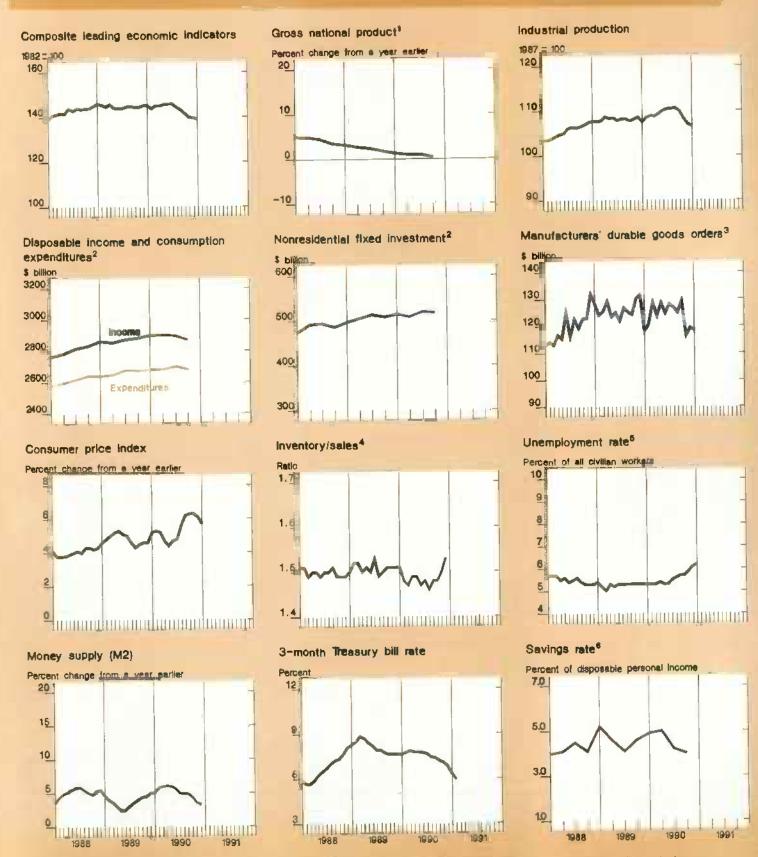
Fed Has Loosened Monetary Policy

Still, with an outlook for a continued weak economy in the first half of 1991, the Federal Reserve likely will allow short-term interest rates to remain at current levels or even permit further declines. The drop in interest rates that has already occurred stands to promote a rebound in interest- and credit-sensitive spending—including new cars, new homes, and new factories—later this year.

The Fed is concerned about the weaknesses and restrictions in financial markets. Stringent credit requirements imposed by banks on borrowers eased little over the last 6 months. In recent testimony before Congress, Fed Chairman Greenspan noted that money supply growth in the fourth quarter was below the target rate.

General Economic Indicators

General Economy



**Percent change from a year serier in 1982 dollars. Seasonally adjusted annual rates

**Nominal dollars. **Manufacturing and trade, seasonally adjusted based on 1982 dollars. **Seasonally adjusted.

**Calculated from disposition of personal income in 1982 dollars, seasonally adjusted at annual rates.

**Sources: U.S. Dept. of Commerce, U.S. Dept of Lebor, and the Board of Governors of the Federal Reserve System.

General Economy

Money growth lagged despite Fed actions to boost it. The Fed eliminated the reserve requirement for nontransaction bank funds, cut the discount rate, and allowed the federal funds rate to fall from 8.2 percent in September to 6.25 in February. More recently, the Fed and other bank regulators agreed to loosen several accounting rules in an effort to encourage banks to make more loans.

For 1991, money growth targets were set slightly below the 1990 ranges, partly because of the current weak growth, but also because of the Fed's long-term goal of reducing inflationary pressures. But Greenspan indicated that interest rates could fall further if the economy continued on a downward path. [John Kitchen and Elizabeth Mack (202) 219-0782]

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Rural Development



Outlook Dim For Food-Related Job Growth

raditional U.S. food and beverage processors offer limited potential for employment growth in the 1990's. This is partly because demand for food and related products is expected to rise at about the same rate as the population, around 1 percent annually over the decade.

While past increases in the demand for convenience foods have led to some new jobs, the gains have not been widespread, either by industry or region. Indeed, employment in the U.S. food processing industry as a whole fell by more than 60,000 during the 1980's.

Employment growth probably will be confined to a relatively limited number of large firms, many having substantial market shares, in a small number of industries. The growth is expected to occur in several clusters of rural counties across the country.

Employment trends of the 1980's suggest that just four industries in the food processing sector can be expected to offer substantial rural job growth. These industries—poultry dressing plants, meat packing plants, cheese processing, and frozen fruit and vegetable processing—also happen to be the largest food processing employers in rural counties.

Job prospects in these industries, however, are only concentrated in those areas that can provide the raw inputs needed for manufacturing (see maps). Specifically, the meat packing industry is expected to continue to expand in selected rural counties of the Plains and the Corn Belt. The poultry dressing industry probably will go on expanding in rural areas of the Delmarva peninsula (of Delaware, Maryland, and Virginia), parts of Georgia, Alabama, and North Carolina, as well as in Arkansas and Texas.

The cheese processing industry is expected to continue growing in the rural counties of Wisconsin. And frozen fruit and vegetable processing should continue to grow in several rural Minnesota and Wisconsin counties. Employment in the other food processing industries, however, probably will continue to shrink.

"Rural" and "nonmetro" are used interchangeably here and mean counties outside metropolitan statistical areas.

Processing Sector Is Small & Concentrated

The food and beverage processing sector includes 47 manufacturing industries. Some 20,000 food processing establishments provided jobs to 1.4 million workers nationally in 1987—the year with the most recent data at the county level. The types of firms range from fruit canneries to grain mills and slaughter houses. There has been no evidence since then, anecdotal or otherwise, to suggest that the trends described here have shifted dramatically since 1987.

In the 1980's, more than half of all jobs in food and beverage processing were in just 7 of the 47 industries: bread and related products; meat packing; poultry dressing; bottled and canned soft drink processing; fluid milk production; sausage and other prepared meat production;

Rural Development

Employment Growth In Food Processing is Scattered in Rural Clusters Across the Country









Includes metropolitan and nonmetropolitan counties. Counties shown gained at least 100 jobs in the given sector during 1981-87.

and miscellaneous food preparations. The seven also accounted for just under half of the number of establishments.

Food processing industries only accounted for 1.3 percent of all U.S. jobs in 1987. Moreover, the sector's 1.4 million jobs were less than half the number in U.S. farm production. The sector was highly concentrated in metropolitan counties; only 30 percent of the jobs were in rural areas.

Even in the top 10 farm-dependent states, food processing employment represented just 2.5 percent of total employment. The top 10 farm states—where farm output as a share of gross state output is more than twice the national aver-

age—were Arkansas, Idaho, Iowa, Kansas, Minnesota, Montana, Nebraska, North Dakota, South Dakota, and Wisconsin.

Farm production jobs in the 10 states outnumbered employment in food processing by more than three to one. Although the sector was not as concentrated in the metropolitan counties of these states as in the nation, rural portions of these states still claimed only 60 percent of the food processing jobs.

The Industry Has Restructured

Food processing industries lost some 59,000 jobs during 1981-87, as a wave of mergers and acquisitions swept the industry. Labor-intensive plants were either scrapped and replaced or rebuilt to rely more on machinery.

The employment change was not evenly distributed. Nationwide, metropolitan urban counties lost 84,000 jobs while rural counties gained 25,000 jobs. And the relative gain in rural counties was even more pronounced in the 10 farm states—rural counties gained some

Rural Development

14,000 jobs while urban counties lost 15,000.

Although there is some potential for employment growth in the rural food processing sector, jobs have increased in only a few major industries since 1975. During 1975-87 nonmetro employment grew in meat packing (by 7,900 jobs or 15 percent), poultry dressing (by 36,800 jobs or 80 percent), cheese processing (by 3,300 jobs or 23 percent), and frozen fruit and vegetable processing (by 6,300 jobs or 38 percent).

Trends in the 10 farm states generally mirror the national pattern, with rural counties gaining jobs only in the same four processing industries.

Employment To Grow In Few Counties

Nationally, fewer than 7 percent (192) of all counties gained at least 100 employees in the four major food processing industries during 1981-87. However, nearly two-thirds of these counties were in rural areas. And some of these rural counties gained food processing jobs at the expense of urban areas.

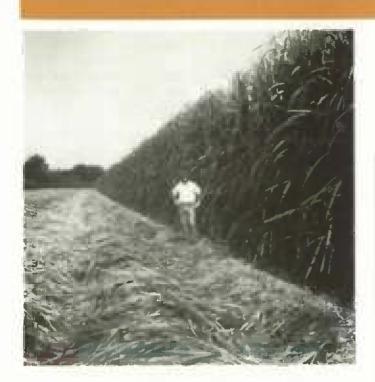
In the meat packing industry, for example, employment during the 1980's shifted away from older, unionized plants in the cities of the western Corn Belt (lowa, western Illinois, southern Minnesota, and Wisconsin) to larger, nonunionized, more machine-intensive plants in the rural areas of Nebraska, Kansas, and the panhandle area of Texas and other parts of Iowa, northern Illinois, and Minnesota.

The presence of competitively priced raw inputs is an essential ingredient for growth. Employment growth in the meat packing industry, for example, was partly caused by the large expansion in the fed cattle industry in parts of the Central and Southern Plains.

The large-scale growth in jobs in the poultry dressing industry can be traced to cheap labor and a favorable climate that keeps energy costs down in the "broiler belt."

Growth in the cheese processing industry in Wisconsin draws on the local dairy herds. And the growth in the frozen fruit and vegetable processing industry in Minnesota and Wisconsin is linked to the crops farmers grow there—such as cherries, apples, sweet corn, beans, and peas. [Dennis Brown and Mindy Petrulis (202) 219-0525, and Alex Majchrowicz (202) 219-0547]





Sugar: Developed Nations Shift From Buyers to Sellers

uring the last 30 years, the industrial market economies have become significantly more important producers and exporters of sugar relative to the less developed countries and what have been called the centrally planned economies. If current trends continue, government support of sugar producers in the market economies may decline. New technologies and investment are pushing down production costs in the industrial market economies.

The relative market shares of the industrial market economies increased significantly from the early 1960's to the late 1980's. Over the same period, the relative shares of the centrally planned economies dropped sharply, and the shares of less developed countries remained about the same.

The gains in market share by the industrial market economies have depended in part on government support, but government support for producers has been high in almost all countries. Gains were more likely due to the overall efficiencies possible in market economies, and to higher private sector expenditure on research and development in the wealthier economies.

Given current policies, it is probable that these trends will continue because the gap will remain between rich and poor countries' capacities to fund research and development in sugar production. However, if the GATT talks tower trade-distorting government support worldwide, many less developed countries

would export more sugar while the industrial market economies would export less.

Uncertainty about the future economic and political directions of the former centrally planned economies makes forecasting for this group almost impossible. However, if market-based policies are implemented in these countries, sugar production probably would share in the overall efficiency gains.

Governments Have Shaped Sugar Markets

Government intervention in sugar production has been pervasive around the world for hundreds of years. Most governments protect their sugar industries from market forces, and the location and volume of production is perhaps as much the result of government decisions as of market signals.

For example, government policies are estimated to have been responsible for over 30 percent of sugar producer revenues in the U.S., the EC, the USSR, Poland, Egypt, and Thailand during 1982-87 (see table). Sugar producers are generally subsidized in all types of economies—the centrally planned, the developing, and the developed. And sugar producers get more support, measured as a percentage of total revenues, than producers of most other commodities. However, producers in the industrial market economies get more support, both in absolute and percentage terms, than producers elsewhere.

In this article, competitiveness is used as a business term referring to the ability to obtain market share, not as an economic concept. So market share is taken as a measure of competitiveness regardless of the degree of government support.

Sugar Producers in Most Countries Studied Received Over 30 Percent of Their Revenue From Government Support

| Producer subsidy equivalents, 1982-87 average | Centrally planned economies | Industrial market economies | Less developed countries |
|--|------------------------------|-----------------------------------|--|
| Above 30 percent | Poland USSR Yugoslavia | Canada EC Japan U.S. | Colombia Egypt India Indonesia Kenya Taiwan Thailand |
| Between zero and 30 percent | | Australia | |
| Below zero | China | South Africa | Nigeria Pakistan |

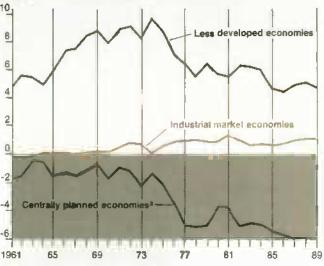
Source: ERS. USDA

*PSE's are total government transfers as a percentage of total farm revenue (including direct payments). Negative PSE's mean the net effect of government policies was to tax producers. Countries here are not representative of the world's sugar producers, but happen to be the only ones with enough data to estimate PSE's. Some PSE's are only for selected years

Special Article

Industrial Market Economies Move Into Sugar Export Business

Revealed competitive advantage index1 10.



'Measures the share of a commodity in a Country's total merchandise exports, compared to world trade of the commodity as a share of total merchandise trade, minus the same ratio for Imports, 2Excludes Cuba.

Because a small country may have a small market share, but still be very competitive, a measure of competitiveness should avoid the effect of country size. The revealed competitive advantage index is such a measure. The index measures the share of a commodity in a country's total merchandise exports, compared with world trade of the commodity as a share of total world merchandise trade. The same ratio for imports is then subtracted from the export ratio.

If a country does not import, only exports will be counted and the revealed competitive advantage index is positive. Likewise, if an importing country has no exports, the index will be negative. In general, a positive index means that a country is a net exporter, and a negative number means the country is a net importer.

Sugar Trade Shows Large Shifts

The share of world sugar output that is traded has declined. During 1965-67, world sugar exports averaged 19 million metric tons annually, or about 30 percent of average annual production of 64 million metric tons. During 1986-88, world trade averaged about 27.5 million metric tons a year, less than 27 percent of average world output of 103 million metric tons.

But the share of world sugar exports accounted for by the industrial market economies has doubled in the last two decades, from 17 percent in 1965-67 to 34 percent in 1986-88. By contrast, the share of exports from less developed countries has fallen from 42 to 37 percent, and the centrally planned economies' share has fallen from 41 to 29 percent.

The most dramatic change on the export scene, however, has been the EC's shift from net importer to net exporter over the last two decades. Since the bulk of EC sugar production is insulated from changes in world prices, subsidized EC exports enter the global market almost independently of the world price.

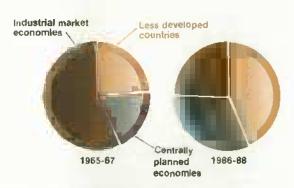
Changes in import shares have been equally dramatic. Imports by the industrial market economies comprised 57 percent of average annual world imports during 1965-67 but only 25 percent in 1986-88. Between the two periods, the import share of less developed nations rose from 23 to 44 percent, and the centrally planned economies' share climbed from 19 to 31 percent.

The most significant factor on the import side was the fall in U.S. purchases, which slipped from an average annual 4.03 million metric tons (23 percent of the world total) in 1965-67 to 1.44 million tons (5 percent) in 1986-88. Most of the decline was due to the substitution of high-fructose corn syrup (HFCS) for sugar in most soft drinks.

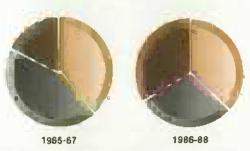
The only other country to substitute HFCS on a significant scale was Japan. But Japan's sugar imports rose from 1.6 to 1.8 million metric tons between 1965-67 and 1986-88. The EC's imports fell, slipping from 2.8 to 1.7 million metric tons. However, the drop primarily reflected higher supports to local producers—the Community has production quotas on HFCS that limit substitution.

In the USSR and China, output could not keep pace with increasing consumption. Between 1965-67 and 1986-88,

Industrialized Economies Cut Sugar Imports . . .



And Double Their Export Share



Share of world sugar imports and exports.

Special Article

| Sugar | Producers | Get More | Support* |
|-------|-----------|-----------------|----------|
| | | | |

| | Industrial market economies | | | Centrally planned economies | | Less developed countries | | | |
|------|--------------------------------|------------------------------|------------|-----------------------------|------------------------------------|--------------------------|-------|------------------------------------|------------|
| Year | Sugar | All agricultural commodities | Difference | Sugar | All agricultural commodities | Difference | Sugar | All agricultural commodities | Difference |
| | | | | | Percent | | | | |
| 1982 | 33 | 26 | 7 | -33 | -25 | -8 | -12 | -22 | 10 |
| 1983 | 39 | 31 | 8 | 9 | -13 | 22 | 3 | -20 | 23 |
| 1984 | 52 | 30 | 22 | 15 | -20 | 35 | 28 | -24 | 52 |
| 1985 | 49 | 35 | 14 | 23 | -22 | 45 | 28 | -6 | 34 |
| 1986 | 55 | 47 | 8 | 39 | -3 | 42 | 23 | -12 | 35 |
| 1987 | 48 | 47 | 1 | -18 | -38 | 20 | 23 | -7 | 30 |

*Producer subsidy equivalents for sugar compared with PSE's for all agricultural commodities. Including sugar, 1982-87.

imports by the USSR rose from 2.2 to 4.4 million metric tons, and by China from 0.5 to 2.4 million metric tons.

Policies, Tastes, & Specialization Are Key Factors

Data were collected for 115 countries that accounted for virtually all world sugar production and consumption. Categorization of centrally planned economies was made on the basis of pre-1989 political and economic orientations.

Before 1975, the revealed competitive advantage index for the EC was generally negative, indicating the Community was a net importer. By 1989, the EC's revealed competitive advantage stood at a positive 0.6. This low value for one of the world's leading exporters partly reflects the large volume of sugar that the EC imports each year on a concessional basis from its former colonies, and partly reflects that while the EC's sugar exports are large in an absolute sense, they are small relative to the Community's total merchandise exports.

The U.S. continues to be a net importer, but has had a rising revealed competitive advantage over the last three decades. During the last decade, this was due more to events on the demand side than on the supply side, as the U.S. has diverted millions of tons of liquid sweetener demand from sugar to HFCS. However, U.S. policies also have limited imports and kept domestic prices above international prices.

Sugar cost-of-production data would not capture the demand effect. For example, people want foods with the characteristics of sweetness and calories. Competitiveness in sweeteners is the ability to provide products with those characteristics. This is one reason why policies that restrict substitution, such as the EC's virtual ban on HFCS (isoglucose in EC terminology), are harmful to competitiveness in the broader sense.

The revealed competitive advantage index for the industrial market economies as a group has risen from a negative value in the early 1960's to a consistently positive number in the 1980's. The index value for the centrally planned economies group

(excluding Cuba) shows a distinct downward trend and has always been negative. The less developed economies began the period with a strongly positive revealed competitive advantage, which then rose in the mid-1970's, but fell in the 1980's.

Cuba Has the Highest Revealed Competitive Advantage

Cuba's dependence on sugar exports is uncommonly heavy. Cuba's revealed competitive advantage rose from about 60 in the early 1960's to close to 200 by the late 1980's. In 1988, Cuba's total exports were \$6.5 billion, with sugar making up 63 percent. Cuba's high index value shows that the nation exports huge volumes of sugar and not much else. In comparison, for the other 114 countries studied, 1988's total merchandise exports were valued at \$2.8 trillion, and sugar trade at \$6 billion, or about two-tenths of a percent of the total.

However, over half of Cuba's sugar exports have historically gone to the Soviet Union, and most of the rest to China and other COMECON nations. These buyers have paid above-market prices, but in unconvertible currencies.

Ranked by their average revealed competitive advantages for 1985-89, the next-highest countries, after Cuba, are Mauritius,

Cuba's Dependence on Sugar Exports Surged While the U.S. Cut Imports

| Country | Average revealed competitive advantage | | | | |
|--------------|--|---------|--|--|--|
| | 1961-65 | 1985-89 | | | |
| SSR | -2.0 | -10.8 | | | |
| ew Zealand | -1.1 | -1.1 | | | |
| nited States | -2.1 | -0.3 | | | |
| С | -0.12 | 0.4 | | | |
| uba | 66.6 | 180.0 | | | |
| razil | 3.0 | 3.1 | | | |
| mbabwel | 1.9 | 8.7 | | | |
| ustralia | 3.3 | 4.7 | | | |

Special Article

How to Calculate an RCA Index

Computing the revealed competitive advantage index for U.S. sugar in 1989 (million \$US);

Guyana, and the Dominican Republic. But although all are significant sugar exporters, none has been among the top five in recent years.

Ranked by volume, the largest exporters after Cuba and the EC are Thailand, Australia, and Brazil. Thailand increased its sugar exports dramatically—its revealed competitive advantage rose from about zero in the early 1960's to about 10 in the late 1980's. In recent years Thailand has exported around 3 million metric tons a year, behind only Cuba and the EC.

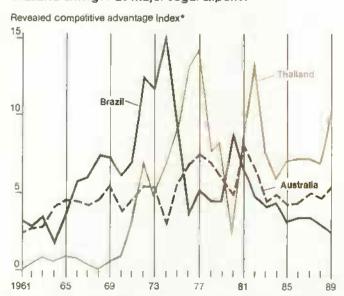
The Thai domestic consumer price of sugar is much above world prices, although returns from sugar exports do fluctuate with world prices. The net effects of Thai sugar policy are to reduce domestic consumption, increase output, and boost exports.

Australia has exported just slightly less than Thailand in recent years, and shows a slow rising trend in its revealed competitive advantage. Brazil, at one time the world's second-largest exporter, has been exporting less in recent years and shows a generally declining though positive revealed competitive advantage.

Like importers of most commodities, sugar importers do not specialize as much as exporters, and so the absolute values of their revealed competitive advantages are generally lower. For example, in recent years the countries with the lowest revealed

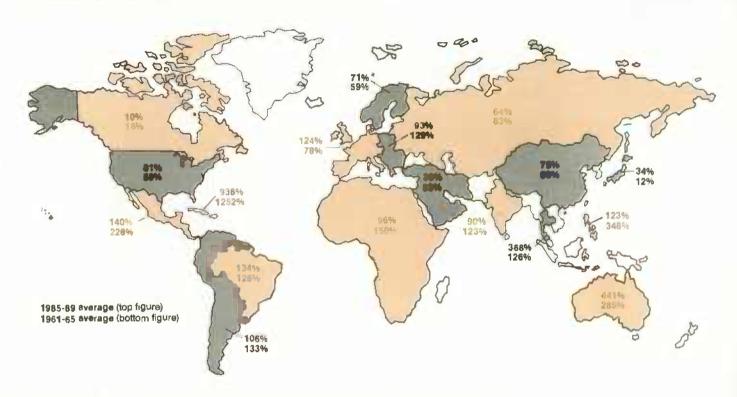
competitive advantages were the Yemen Arab Republic, Sri Lanka, Syria, and the USSR, none of which had a revealed competitive advantage below -11, whereas four exporters had revealed competitive advantages topping 40. The USSR stands out as the world's largest importer and had the lowest (-10.8) average revealed competitive advantage during 1985-89.

Thailand Emerges as Major Sugar Exporter



*Measures the share of a commodity in a country's total merchandise exports, compared to world trade of the commodity as a share of total merchandise trade, minus the same ratio for imports.

Developing Countries' Sugar Exports Have Declined Since the 1960's



Each average is a ratio of 5-year average sugar production to sugar consumption expressed as a percentage. *Western Europe excluding the EC

| | Centrally planned economies | Industrial market economies | Less developed countries | All countries in sample |
|--|-----------------------------------|-----------------------------------|--------------------------------|-------------------------------|
| | | Per | cent | |
| Share of world production (1974-89 average) | 27 | 29 | 44 | 100 |
| | | Number of | fcountries | |
| Total number in group | 12 | 24 | 79 | 115 |
| Number of net importers: 1961-65 average | 6 | 19 | 49 | 74 |
| 1985-89 average | 8 | 13 | 48 | 69 |
| Number of net exporters: 1961-65 average | 6 | 5 | 30 | 41 |
| 1985-89 average | 4 | 11 | 31 | 46 |
| RCA fell between 1961-65 and 1985-89 | 9 | 2 | 35 | 46 |
| RCA rose between 1961-65 and 1985-89 | 3 | 22 | 44 | 69 |
| RCA changed sign to negative (became net importer) | 3 | 0 | 7 | 10 |
| RCA changed sign to positive (became net exporter) | 1 | 6 | 8 | 15 |

Special Article

Specialization Has Slowed

The less developed economies accounted for about 44 percent of world sugar production during 1974-89, the industrial market economies about 29 percent, and the centrally planned economies (including Cuba) about 27 percent. Of the 115 countries, 74 were net importers during 1961-65, but only 68 during 1985-89. Specialization in sugar production has decreased because the number of net importers has dropped.

Shifts in competitiveness between the early 1960's and the late 1980's show that among the 12 centrally planned economies, 9 experienced a decline in revealed competitive advantage, and only 3 showed an increase. Three centrally planned economies went from being net exporters to being net importers, while only one made the opposite move.

The changes in competitiveness among the industrial market economies over the period are more striking. Of 24 countries, 22 showed increases in their revealed competitive advantages, and only 2 posted declines. They were Greece and Israel. Since Israel produces no sugar, this change reflects only consumption and import patterns.

Not a single industrial market economy switched from net exporter to net importer, while six went the other way. All six (Sweden, Austria, West Germany, Netherlands, Spain, and Ireland) are West European countries, and four are members of the EC.

Changes among less developed economies were not so dramatic or consistent. Of the 79 less developed economies, revealed competitive advantages rose for 44 and fell for 35. Seven less developed economies became net importers, while eight became net exporters. [Ron Lord (202) 219-0888]



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Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector

| | | 1989 | | 1990 | | _ | 1991 | | |
|--|---|---|---|---|--|---|---|---|---|
| | IV | Annual | IV | Annual | IF | ll F | m F | IV F | Annual F |
| Prices received by farmers (1977=100) Livestock & products Crops | 146 185 126 | 147 160 134 | 145 167 122 | 150 171 128 | 145 164 125 | 143 164 121 | 144 185 121 | 141 163 119 | Ξ |
| Prices paid by farmers, (1977=100) Production Items Commodities & services, Interest, taxes, & wages | 185 178 | 1 8 5 178 | 174 187 | 171 184 | 173 187 | Ξ | Ξ | Ξ | Ξ |
| Cash receipte (\$ bil.) 1/ Livestock (\$ bil.) Crope (\$ bil.) | 162 89 73 | 159 84 75 | 164 89 74 | 167 89 78 | 160 85 74 | 100 85 84 | 174 89 85 | 163 90 74 | 165-170 85-89 77-81 |
| Market basket (1982–84=100) Retail cost Farm value Spread Farm value/retail cost (%) | 127 108 137 30 | 125 107 134 30 | 135 110 449 28 | 134 114 144 30 | *= | <u> </u> | Ξ | | Ē |
| Retail prices (1982–84±100) Food At home Away from home | 127 126 130 | 125 124 127 | 134 134 135 | 132 132 133 | 136 136 137 | Ξ | Ξ | Ē | 135-139 135-137 138-141 |
| Agricultural exports (\$ bit.) 2/ Agricultural Imports (\$ bit.) 2/ | 10.6 5.4 | 39.7 21.5 | 9.9 5.4 | 40.1 22.5 | 11.3 5.8 | 8.8 5.5 | 8.4 5.3 | _ | 37.0 22.5 |
| Commercial production Red meat (mit. lb.) Poultry (mit. lb.) Eggs (mit. doz.) Milk (bit. lb.) | 10,105 5,727 1,415 34.9 | 39.418 22.039 5.598 144.3 | 9,852 6,140 1,444 38.3 | 38,593 23,638 5,659 148.6 | 9,585 5,960 1,415 37.6 | 9,672 6,230 1,430 39.2 | 9.947 6,315 1,425 36.9 | 10,108 6.420 1,445 36.5 | 39,310 24,925 5,710 150,2 |
| Consumption, per capita * Red meat and poultry (lb.) | 54.6 | 209.2 | 54.8 | 209.6 | 51.9 | 53.2 | 84,4 | 60.5 | 216.0 |
| Corn beginning stocks (mtl. bu.) 3/ Corn use (mtl. bu.) 3/ | 3.419.3 1,489.2 | 4,259.1 7,260.2 | 1,344.5 | 7,082.1 8,115.0 | 8,940 2.190 | = | = | | 6,940.0 8,045 |
| Prices 4/ Choice steers—Neb. Direct ** Barrows & glits—7 mkts. (\$/cwt) Broilers—12-city (cts./lb.) Eggs—NY gr. A large (cts./doz.) Milk—all st piant (\$/cwt) | 74.13 47.42 49.8 92.6 15.47 | 73,86 44,03 69.0 81.9 13.67 | 80.60 51.67 48.8 88.5 12.63 | 78.56 54.45 54.8 82.2 13.77 | 78-80 50-52 51-53 85-87 11.50 11.80 | 77-83 51-67 52-58 69-75 10.50- 11.10 | 75-81 53-59 53-59 71-77 10.85- 11,45 | 77-83 48-54 50-66 73-79 11.50- 12.50 | 76-82 50-56 51-57 74-80 11.10 |
| Wheat—KC HRW ordinary (\$/bu.) Corn—Chicago (\$/bu.) Soybeans—Chicago (\$/bu.) Cotton—Avg. spot mkt. (cte./lb.) | 4.34 2.36 5.70 67.1 | 4.36 2.66 6.70 63.7 | 2.70 2.30 5.86 69.9 | Ξ | | = | | = | = |
| | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 F |
| Gross cash income (\$ bit.) Gross cash expenses (\$ bil.) | 150. 6 111.0 | 155.5 119.0 | 157.2 109.3 | 152.0 105.2 | 164.3 108.2 | 170.4 112.3 | 177.5 122.8 | 183 125 | 180-185 124-130 |
| Net cash income (\$ bil.) Net farm income (\$ bil.) | 39. 5 15.3 | 36.6 26.3 | 47.9 31,0 | 46.7 31.0 | 56.1 41.3 | 58.1 41.8 | 54.6 46.7 | 58 49 | 53-58 42-47 |
| Farm real estate values 5/ Nominal (\$ per acre) Real (1977 \$) | 788 472 | 801 459 | 713 395 | 640 346 | 500 317 | 632 322 | 867 325 | 693 322 | 714-728 315-321 |

^{1/} Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.—Sept. fiscal years ending with year indicated. 3/ Dec.—Feb. first quarter; Mar.—May second quarter; June—Aug. third quarter; Sept.—Nov. fourth quarter; Sept.—Aug. annual. Use includes exporte & domestic disappearance. 4/ Simple averages. 5/ 1990—91 values as of January 1. 1985—89 values as of February 1. 1982—85 values as of April 1. F = forecast, — = not available.

^{*} The pork carcass to retail conversion factor has been revised. ** Omaha Choice steer price has been replaced by the Nebraska Direct, 1,100–1,300 lb. Choice steer price.

U.S. and Foreign Economic Data

Table 2.—U.S. Gross National Product & Related Data

| | | Annual | | 1989 | | 1 | 990 | |
|--|--------------------|--------------------|---------------------------|--------------------|--------------------|--------------------|------------------|------------------|
| | 1988 | 1089 | 1990 FI | IV | | | 111 | IV F |
| | | | \$ billion (que | rterly deta sea | eonally adjust | ed at annual r | ntes) | |
| Gross national product | 4,873.7 | 5,200.8 | 5,463.6 | 5,289.3 | 5.375.4 | 5,443.3 | 5.514.6 | 5.521.3 |
| Personal consumption expenditures | 3,238.2 | 3,450.1 | 3.668.6 | 3,518,5 | 3.588.1 | 3,622.7 | 3.693.4 | 3,730.3 |
| Durable goods | 457.5 | 474.0 | 480.9 | 471.2 | 492.1 | 478.4 | 482.3 | 470.8 |
| Nondurable goods | 1.060.0 | 1,130.0 | 1,194.1 | 1,148.8 | 1,174.7 | 1,179.0 | 1.205.0 | 1.217.6 |
| Clothing & shoes | 191.1 | 204.6 | 213.3 | 208.7 802.2 | 212.9 616.4 | 212.6 623.3 | 215.8 629.8 | 211.9 630.9 |
| Food & beverages Services | 562.6 1,720.7 | 595.3 1.845.5 | 625.1 1.983.5 | 1,898.5 | 1,921.3 | 1.965.3 | 2,006.2 | 2,041.3 |
| Gross private domestic investment | 747.1 | 771.2 | 741.9 | 762.7 | 747.2 | 750.0 | 759.7 | 701.8 |
| Fixed Investment | 720.8 | 742.9 | 748.1 | 737.7 | 758.9 | 745.6 | 750.7 | 729.3 |
| Change in business inventories | 26.2 | 28.3 | -42 | 25.0 | -11.8 | 13.4 | 9.0 | -27.0 |
| Net exports of goods & services | -74.1 | -46.1 | -35.3 | -35.3 | -30.0 | -24.9 | -41 3 | -42.3 |
| Government purchases of goods & services | 982.5 | 1:025.6 | 1.097.8 | 1,043.3 | 1,070.1 | 1.088.4 | 1,102.8 | 1,131.8 |
| | | | 1982 \$ billion | (quarterly dat | a seasonally a | djusted at ani | nual retes) | |
| Gross national product | 4.016.9 | a4,117.7 | 4,166.3 | 4,133.2 | 4,150.6 | 4,155.1 | 4,170.0 | 4,149.5 |
| Personal consumption expanditures | 2,808.5 | 2,656.8 | 2.682.4 | 2,869.9 | 2,677.3 | 2.678.6 | 2,696.8 | 2,676.9 |
| Durable goods | 418.2 | 2.900.B 428.0 | 427.9 | 423.1 | 437.6 | 426.6 | 429.5 | 417.5 |
| Nondurable goods | 909.4 | 919.9 | 911.4 | 923.0 | 915.d | 911.2 | 916.4 | 902.6 |
| Clothing & shoes | 185.0 | 172.7 | 172.7 | 175.1 | 174.2 | 171.3 | 174.4 | 170.0 |
| Food & beverages | 482.2 | 462 9 | 457.7 | 460.3 | 457.4 | 459.3 1,340.6 | 459.4 1,350.8 | 454.1 1,356.0 |
| Services | 1,278.9 | 1,309.0 | 1,343.2 | 1.323 6 | 1.324.2 | | | |
| Gross private domestic investment | 705.7 | 716.9 | 689.6 | 709.1 | 700.7 | 700.7 | 697.0 | 659.6 |
| Fixed investment | 682.1 23.6 | 693.1 | 6 92.1 -2.5 | 690.2 18.9 | 702.9 -2.2 | 91.2 9.5 | 692.3 4.7 | 682.0 -22.2 |
| Change in business inventories Net exports of goods & services Government purchases of | -75.9 | 23.8 -54.1 | -38.2 | -47.9 | -35.4 | -44.6 | -46.5 | -18.5 |
| goode & services | 780.5 | 798.1 | 820.5 | 802.2 | 607.9 | 820.2 | 622.7 | 831.3 |
| GNP Implicit price deflator (% change) | 3.3 | 4.1 | 4.1 | 3.6 | 4.8 | 4.7 | 3.7 3.969.1 | 4,000.1 |
| Disposable personal Income (\$ bil.) Disposable per, income (1982 \$ bil.) | 3,479.2 2,800.5 | 3,725.5 2,669.0 | 3.945.6 2,893.1 | 3.799.6 2.883.2 | 3,887.7 2,900.9 | 3.925.7 2,902.6 | 2,898.0 | 2,870.7 |
| Per capite disposable per, income (\$) | 14,123 | 14,973 | 15,693 | 15.210 | 15,527 | 15,639 | 15,765 | 15.84 |
| Per capita dis. per. Income (1982 \$) | 11,368 | 11.531 | 11,507 | 11,541 | 11.588 | 11,584 | 11,511 | 11.370 |
| U.S. population, total, incl. military abroad (mil.) | 248.4 | 248.6 | 251.4 | 249.8 | 250.4 | 251.0 | 251.8 | 252.5 |
| Civilian population (mil.) | 244.1 | 246.6 | 249.2 | 247.6 | 248.2 | 248.8 | 249.6 | 250.0 |
| | | Annual | | | 1 | 990 | | 1991 |
| | 1988 | 1989 | 1990 P | Jan | Oct | Nov | Dec | Jar |
| | | | N | fonthly data se | esonally adjus | sted | | |
| Industrial production (1987=100) Leading economic indicators (1982=100) | 105.4 142.7 | 108.1 144.9 | 109.2 144.0 | 107.5 145.4 | 109.9 | 108.2 | 107.0 139.7 | 106.5 |
| | | | | | 117.7 | | 117.6 | 116.9 |
| Civilian employment (mil. persons) Civilian unemployment rate (%) | 115.0 5.4 | 117.3 5.2 | 117.9 5.4 | 117.9 5.3 | 5.7 | 117.4 5.9 | 6.1. | 6.2 |
| Personal Income (\$ bil. annual rate) | 4,070.8 | 4.384.3 | 4.645.1 | 4.532.2 | 4,695.1 | 4,714.1 | 4.740.9 | 4,719.1 |
| Money stock-M2 (daily avg.) (\$ bil.) 1/ | 3.072.4 | 3,223.1 | 3,330.5 | 3,233 6 | 3,325.2 | 3,325.6 | 3,330.5 | 3.332.6 |
| Three-month Treasury bill rate (%) | 6.69 | 8.12 | 7.51 | 7.64 | 7.19 | 7.07 | 6.81 | 6.30 |
| AAA corporate bond yield (Moody's) (%) | 9.71 | 9.26 | 9.32 | 8.99 | 9.53 1,026 | 9.30 | 9.05 975 | 9.04 8.50 |
| Housing starts (1,000) 2/ | 1,488 | 1.376 | 1,193 | 1,543 | | 1,130 | | |
| Auto sales et retall, total (mil.) | 10.6 | 1.50 | 9.5 | 10.2 1.51 | 9.3 1.48 | 8.6 1,50 | 8.9 1.53 | 7.0 |
| Business inventory/sales ratio Sales of all retail stores (\$ bil.) | 1.49 137.5 | 144.5 | 150.0 | 150.3 | 151.8 | 151.7 | 149.5 | 148.2 |
| Nondurable goods stores (\$ bil.) | 85.2 | 90.7 | 96.0 | 93.6 | 97.7 | 98.3 | 97.9 | P 97. |
| Food stores (\$ bit.) | 27.2 | 29.1 | 30.6 | 29.9 | 30.9 | 31.1 | 31.2 | P 31. |
| Eating & drinking places (\$ bil.) Apparel & accessory stores (\$ bil.) | 13.6 7.1 | 14.5 7.6 | 15.1 7.9 | 14.8 7.7 | 15.2 7.8 | 15.3 7.6 | 15.3 7.7 | P 15. |
| | | Annual | | | 1990 | | | 1991 |
| | 1988 | 1989 | 1990 | Feb | Nov | Dec | Jan | Fel |
| | 1800 | 1 Tarky 40, | | 1.00 | 1404 | 200 | | . 0 |
| Foreign exchange value of the dollar | | | | | | | | |
| Japanese yen per U.S. dollar | 128.2 | 137.9 | 145.7 | 145.7 | 126.9 | 133.8 | 131.5 | 130.3 |
| German marke per U.S. dollar | 1.757 | 1.874 | 1.672 | 1.677 | 1.480 | 1.500 | 1.487 | 1.48 |

1/ Annual data so of December of the year ||sted. 2/ Private, Including farm. R = revised. P = preliminary. --- = not available.

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Table 3.—Foreign Economic Growth, Inflation, & Export Earnings

| | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | ଷ ୬ ୧1 F | 1992 F | Average 1980-89 |
|-----------------------------------|-------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------------------|-----------------|--------------|--------------------|
| | | | | | Annu | al percent | change | | | | | |
| World, less U.S. | | | | | | | | | | | | |
| Real GDP | 1.1 | 2.0 | 4.3 | 3.8 | 2.7 9.1 | 3.6 11.4 | 4.3 17.7 | 3.4 | 2.1 79.6 | 1.5 | 3.3 | 3.0 15.0 |
| Consumer prices | 13.1 | 11.8 | 12.5 | 13.0 1.8 | 10.9 | 16.0 | 12.7 | 31.9 7.4 | 11.7 | 23.0 9.7 | 14.5 | 8.6 |
| Merch, exports | -7.9 | -1.6 | 5.4 | 1.0 | 10.0 | 10.0 | 12.7 | 7.9 | 11.7 | 0.7 | 0.9 | 0.0 |
| Developed less U.S. | 1.0 | 2.2 | 3.9 | 3.5 | 2.7 | 3.5 | 4.4 | 4.0 | 3.0 | 2.5 | 3.3 | 2.9 |
| Real GDP | 8.2 | 5.8 | 4.9 | 4.5 | 2.7 | 2.8 | 2.9 | 4.3 | 4.8 | 4.8 | 4.4 | 5.7 |
| Consumer prices | -4.4 | -0.5 | 6.3 | 4.8 | 19.5 | 17.7 | 12 3 | 6.0 | 14.3 | 11.1 | 8.0 | 7.5 |
| Merch, exports Developing | | -0.5 | 9,3 | 4.0 | 10.0 | 17.7 | 12 3 | 0.0 | 14.3 | 11.1 | 0.9 | |
| Real GNP | 1.9 | 1.3 | 4.5 | 4.5 | 2.8 | 4.1 | 4.2 | 3.4 | 2.1 | 2.4 | 5.7 | 3.4 |
| Consumer prices | 25.3 | 32.7 | 38.2 | 39.6 | 27.0 | 35 5 | 57.0 | 78.0 | 278.6 | 46.2 | 34.6 | 39.0 |
| Merch, exporte | -13.3 | -3.3 | 3.8 | -3.2 | -6.1 | 22.0 | 13.6 | 10.8 | 7.5 | 0.8 | 12.4 | 4.0 |
| Asla, incl. China | 1010 | ψ.Β | | Ψ.6 | | | | | | | | |
| Real GDP | 5.7 | 8.0 | 7.5 | 7.3 | 5.8 | 8.9 | 8.6 | 5.3 | 6.1. | 5.3 | 6.2 | 8.7 |
| Consumer prices | 8.4 | 8.8 | 8.1 | 8.0 | 5.0 | 7.4 | 11.8 | 10.1 | 8.2 | 9.4 | 9.3 | 8.2 |
| Merch, exports | -0.5 | 4.8 | 14.8 | -0.9 | 6.8 | 30.1 | 23.1 | 11.5 | 9.3 | 11.8 | 13.9 | 12.6 |
| Latin America | | | | | | | | | | | | |
| Reel GDP | -1.5 | -2.7 | 3.3 | 3.3 | 3.8 | 3.4 | 0.7 | 1.2 | -1.2 | 1.4 | 3.8 | 1.7 |
| Consumer prices | 67.1 | 108.7 | 133.5 | 145.1 | 82.1 | 116.3 | 218.6 | 345.7 | 927.5 | 137.4 | 93.6 | 133.2 |
| Merch, exports | -10.6 | -0.2 | *6.3 | -5.6 | -17.0 | 13.7 | 13.0 | 12.4 | 5.5 | 4.5 | 5.3 | 4.8 |
| Africa | | | | | | | | | | | | |
| Real GDP | -1.7 | -0.8 | -0.6 | 3.4 | -0.9 | 0.6 | 2.3 | 2.8 | 2.8 | 2.5 | 2.2 | 0.4 |
| Consumer prices | 13.1 | 18,0 | 20.8 | 13.2 | 12.5 | 13.1 | 19.2 | 22.5 | 18.0 | 18.2 | 14.7 | 17.0 |
| Merch, exports | -27.9 | 15.2 | -1.0 | -2.5 | -17.4 | 14.7 | -4.7 | 15.2 | 21.9 | 3.9 | 5.5 | 1.2 |
| Middle East | | | | | | 4.5 | 4.4. | 2.0 | 0.0 | | 44.0 | 2.1 |
| Real GDP | 2.9 | -1.6 11.9 | 2.9 14.3 | 2.3 17.1 | 2.0 14.9 | 1.5 19.2 | 1.41 | 3.9 | -2. 8 18.7 | -8.5 19.1 | 11.9 15.5 | 15.8 |
| Consumer prices | 12.9 | -22.2 | -10.5 | -6.7 | -19.6 | 24.2 | 19.4 1.6 | 14.5 24.1 | 22.3 | -3.3 | 17.7 | -1.2 |
| Merch, exports | -21.1 | -22.2 | -10.6 | -0.7 | -10.0 | 24.2 | 1.0 | 44.1 | 22.3 | -3.4 | 17.7 | -1.2 |
| Eastern Europe, Incl. Real GDP | 2.0 | 3.0 | 1.8 | 1.6 | 3.0 | 1.4 | 4.2 | 1.0 | -4.7 | -4.5 | -2.3 | 2.1 |
| Consumer prices | 12.8 | 5.4 | 4.2 | 6.0 | 7.4 | 6.0 | 15.5 | 87.3 | 77.6 | 59.8 | 24.4 | 14.0 |
| Merch, exports | 1.3 | 3.7 | 1.8 | 0.3 | 8.2 | 5.1 | 3.0 | 0.1 | -4.3 | 4.8 | 3.6 | 4.8 |

F = forecast.

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Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average

| | Annual | | | | 1990 | | | 1991 | | |
|---|------------|-------|-------|-----|-----------|-------|-----|----------|-------|------------|
| | 1988 | 1989 | 1990 | Feb | Sept | Oct | Nov | Dec | Jan A | Feb P |
| | ~ | | | 1 | 977=100 | | | | | |
| Prices received | 120 | 147 | 180 | 151 | 148 | 146 | 140 | 143 | 145 | 144 |
| All ferm Producte | 138 126 | 134 | 128 | 133 | 123 | 120 | 124 | 121 | 123 | 122 |
| All crop® | | 158 | | 148 | 103 | 101 | 100 | 100 | 102 | 102 |
| Food greine | 138 | 128 | 123 | 120 | 120 | 114 | 113 | 115 | 117 | 117 |
| Feed grains & hay | 120 | | | | 115 | 108 | 108 | 110 | 112 | 112 |
| Feed grains | 117 | 123 | 118 | 115 | 108 | 112 | 113 | 109 | 108 | 110 |
| Cotton | 95 | 98 | 107 | 101 | | | 152 | 152 | 154 | 154 |
| Tobacco | 132 | 145 | 148 | 148 | 152 | 151 | | 96 | 95 | 92 |
| Oll-bearing crops | 108 | 102 | 93 | 87 | 95 | 95 | 98 | | 208 | 202 |
| Fruit, all | 185 | 192 | 191 | 174 | 198 | 101 | 205 | 194 | | |
| Fresh market 1/ | 197 | 203 | 202 | 181 | 214 | 194 | 221 | 204 | 221 | 213 145 |
| Commercial vegetables | 140 | 151 | 154 | 217 | 141 | 156 | 162 | 148 | 146 | |
| Fresh market | 135 | 144 | 144 | 208 | 138 | 150 | 161 | 135 | 138 | 135 135 |
| Polatoes & dry beans | 124 | 186 | 191 | 198 | 131 | 116 | 132 | 138 | 137 | |
| Livestock & products | 150 | .4 ⊜0 | 171 | 109 | 173 | 171 | 166 | 164 | 168 | 168 |
| Meat animale | 188 | 174 | 193 | 188 | 193 | 198 | 190 | 190 | 193 | 198 |
| Dairy products | 126 | .140 | 142 | 148 | 148 | 136 | 132 | 123 | 121 | 110 |
| Poultry & eggs | 116 | 137 | 131 | 131 | 135 | 129 | 127 | 129 | 134 | 122 |
| Prices paid | | | | | | | | | | |
| Commodities & services. | | | | | | | | | 407 | |
| Interest, taxes, & wage rates | 170 | 178 | 184 | - | _ | 187 | _ | | 187 | - |
| Production items | 157 | 167 | 171 | _ | _ | 174 | _ | _ | 173 | 11.0 |
| Feed | 128 | 135 | 126 | _ | _ | 124 | | _ | 123 | _ |
| Feeder livestock | 192 | 194 | 213 | _ | _ | 219 | _ | _ | 216 | _ |
| Seed | 150 | 165 | 165 | _ | _ | 163 | _ | | 163 | _ |
| Fertilizer | 130 | 137 | 130 | - | _ | 132 | _ | | 132 | _ |
| Agricultural chemicale | 128 | 132 | 139 | _ | _ | 141 | _ | _ | 141 | 27 |
| Fuels & energy | 108 | 161 | 204 | | Adding to | 239 | _ | _ | 219 | _ |
| Farm & motor supplies | 148 | 156 | 154 | _ | _ | 158 | _ | _ | 156 | _ |
| Autos & trucks | 215 | 223 | 231 | | , | 233 | _ | | 233 | _ |
| Tractors & self-propelled mechinery | 181 | 193 | 202 | _ | _ | 208 | _ | _ | 208 | _ |
| Other machinery | 197 | 208 | 218 | _ | | 220 | | _ | 220 | _ |
| Building & tending | 138 | 141 | 144 | - | - | 144 | _ | | 144 | |
| Form services & cash tent | 148 | 158 | 188 | _ | _ | 166 | _ | | 172 | - |
| Int. payable per acre on farm real estate debt | 182 | 177 | 174 | _ | _ | 174 | _ | <u>a</u> | 173 | - 2 |
| Taxes payable per scre on farm real estate | 147 | 152 | 157 | - | - | 157 | _ | | 182 | _ |
| Wage rates (sessonally edjusted) | 172 | 186 | 192 | _ | ., | 186 | | _ | 186 | **** |
| Production items, interest, taxes, & wage rates | 180 | 167 | 172 | _ | _ | 174 | _ | _ | 174 | _ |
| Ratio, prices received to prices paid (%) 2/ | 82 | 83 | 82 | 83 | 80 | 78 | 78 | 78 | 78 | . 77 |
| Prices received (1910-14=100) | 632 | 673 | 684 | 891 | 878 | 667 | 864 | 654 | 663 | 660 |
| Prices paid, etc. (parity Index) (1910-14=100) | 1,167 | 1,221 | 1.265 | _ | _ | 1,289 | _ | _ | 1,289 | _ |
| Parity ratio (1910-14x 100) (%)2/ | 54 | 55 | 54 | | 54 | 52 | 62 | 51 | 51 | _ |

1/ Fresh market for noncitrus; fresh merket & processing for citrus. 2/ Ratio of index of prices received for all farm products to index of prices paid for commodities & services, interest, taxes, & wege rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, & October. Ratious, Persiminary, --- = not evaluable.

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Table 5.—Prices Received by Farmers, U.S. Average

| | | Annual | 1/ | 1990 | | | | | 1991 | | |
|--|--------------------------------|--------------------------------|------------------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|
| | 1988 | 1989 | 1990 P | Feb | Sept | Oct | Nov | Dec | Jan R | Feb P | |
| CROPS All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.) Sorghum (\$/cwt) | 3.72 6.83 2.54 4.05 | 3.72 7.35 2.36 3.79 | 2 20-2.40 | 3. 58 7. 57 2.32 3.53 | 2.46 6.25 2.32 3.95 | 2.42 6.02 2.19 3.56 | 2.39 6.30 2.17 3.57 | 2.40 6.08 2.22 3.67 | 2.42 6.33 2.27 3.72 | 2.43 6.43 2.27 3.83 | |
| All hay, baied (\$/ton) | 85.20 | 86.00 | 86.00 | 85.70 | 85.70 | 86.00 | 81.50 | 80.70 | 82.00 | 80.40 | |
| Soybeane (\$/tou.) | 7.42 | 5.70 | 5.40-6.00 | 5.56 | 5.90 | 5.87 | 5.78 | 5.72 | 5.72 | 5.60 | |
| Cotton, upland (cts./ib.) 2/ | 55.6 | 63.2 | 68.10 | 61.0 | 65.1 | 67.5 | 68.2 | 65.9 | 64.2 | 66.8 | |
| Potatoes (\$/cwt) Lettuce (\$/cwt) 3/ Tornatoes fresh (\$/cwt) 3/ Onlone (\$/cwt) Dry edible beans (\$/cwt) | 6.02 | 7.36 | 6.15 | 7.70 | 5.47 | 4.69 | 5.28 | 5.54 | 5.68 | 5 49 | |
| | 14.70 | 12.60 | 11.80 | 6.61 | 18.40 | 19.70 | 18.50 | 10.70 | 10.10 | 6.48 | |
| | 26.90 | 32.90 | 26.40 | 97.60 | 24.00 | 31.30 | 30.40 | 29.80 | 23.10 | 30.00 | |
| | 9.75 | 11.60 | 10.30 | 15.80 | 8.78 | 10.50 | 10.70 | 14.40 | 16.60 | 10.10 | |
| | 29.90 | 28.50 | 18.80 | 32.20 | 18.30 | 17.80 | 19.10 | 18.80 | 17.30 | 18.20 | |
| Apples for fresh use (cts./lb.) Pears for fresh use (\$/ton) Oranges, all uses (\$/tox) 4/ Grapefruit, sil uses (\$/tox) 4/ | 17.4 358.00 7.18 5 43 | 13.4 338.00 6.89 4.49 | 392.00 5.99 6.21 | 12.4 345.00 5.52 5.50 | 24.5 389.00 5.31 7.22 | 19.4 373.00 4.48 6.51 | 20.2 390.00 6 31 5.53 | 20.8 361.00 6.18 5,63 | 20.1 356.00 6.62 5.66 | 20.7 382.00 5.98 4.50 | |
| LIVESTOCK Beef cattle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambe (\$/cwt) | 66.80 | 69.70 | 74.80 | 74.60 | 75.00 | 75.50 | 75.30 | 76.10 | 76.60 | 77.30 | |
| | 89.90 | 91.80 | 96.70 | 95.80 | 95.50 | 92.80 | 93.90 | 96.80 | 98.00 | 102.00 | |
| | 42.50 | 43.20 | 54.00 | 48.20 | 54.30 | 56.80 | 50.20 | 47.80 | 50.00 | 51.00 | |
| | 69.50 | 67.30 | 56.00 | 59.80 | 52.80 | 52.00 | 50.10 | 48.60 | 48.00 | 48.30 | |
| All milk, sold to plante (\$/cwt) Milk, manuf, grade (\$/cwt) Brollers (cts/lb.) Egge (cts/lb.) Turkeys (cts/lb.) Wool (cts/lb.) | 12.26 | 13.56 | 13.75 | 14.40 | 14,20 | 13.20 | 12.80 | 11,90 | 11.70 | 11.60 | |
| | 11.15 | 12.38 | 12.30 | 12.50 | 12,50 | 11.80 | 10.50 | 10,50 | 10.30 | 10.20 | |
| | 34.0 | 36.0 | 32.9 | 33.5 | 35,2 | 29.0 | 28.2 | 28,8 | 30.9 | 29.9 | |
| | 53.3 | 70.0 | 70.0 | 70.4 | 68,5 | 73.5 | 72.9 | 76,5 | 79.1 | 67.7 | |
| | 37.0 | 40.0 | 38.3 | 33.7 | 40,6 | 42.2 | 43.0 | 35,6 | 33.9 | 34.4 | |
| | 138.0 | 124.0 | 76.8 | 70.6 | 71,9 | 83.5 | 58.0 | 48,2 | 38.2 | 42.1 | |

^{1/} Season average price by crop year for crops. Calendar year sverage of monthly prices for livestock. 2/ Weighted average of first 7 months of the season – not a projection for 1990/91. 3/ Excludes Hawaii. 4/ Equivalent on-tree returns. 5/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 6/ Average local market price, excluding incentive payments. R = revised. P = preliminary. — not available.

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Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

| | Annust | | | | | 1990 | | | | 1991 |
|--|--|--|--|--|--|--|--|--|--|--|
| | 1990 | Jan | June | July | Aug | Sept | Oct | Nov | Dec | Jan |
| | | | | | 1982-8 | 4=100 | | | | |
| Consumer Price Index, sil items Consumer Price Index, less food | 130. 7 130. 3 | 127.4 126.7 | 129.9 129.4 | 130.4 130.0 | 131.6 131.3 | 132.7 132.6 | 133.5 133.5 | 133.8 133.7 | 133.8 133.7 | 1 34.6 134.3 |
| All food | 132.4 | 130.4 | 132.0 | 132.7 | 132.9 | 133.2 | 133.6 | 134.0 | 134.2 | 135.8 |
| Food away from home | 133.4 | 130.3 | 133.4 | 133.9 | 134.3 | 134.6 | 135.0 | 135.4 | 135.7 | 135.8 |
| Food at home Meats 1/ Beef & veal Pork | 132 3 129.5 128.8 129.8 | 131.0 122.3 124.5 104.6 | 131.7 129.6 129.0 132.9 | 132.5 130.3 129.2 134.8 | 132.7 130.5 128.5 136.5 | 132 9 131.0 129.5 135.4 | 133.4 131.7 130.1 136.4 | 133.8 133.1 131.9 137.1 | 133.8 133.6 133.0 136.8 | 136.4 133.5 132.9 136.5 |
| Poultry Fieh Eggs Dairy Products 2/ Fate & oils 3/ Fresh fruit | 132.5 146.7 124.1 126.5 128.3 170.9 | 128.6 149.0 143.9 125.8 123.5 171.4 | 134.0 143.7 112.2 124.9 125.5 173.2 | 135.3 143.3 109.1 125.7 126.6 176.6 | 133.6 145.2 119.6 127.3 127.4 169.6 | 134.6 147.4 120.6 127.6 128.2 168.7 | 133.7 147.0 125.5 128.6 128.1 163.2 | 130.5 147.0 128.5 128.1 128.8 164.8 | 129.7 148.5 128.7 126.7 131.0 171.2 | 131.3 151.1 139.8 125.2 132.4 190.2 |
| Processed fruit Frest vegetables Potatoes Processed vegetables | 136.9 151.1 162.6 127.5 | 125.1 178.9 150.1 125.4 | 140.1 140.0 185.8 127.6 | 140 1 143.8 179.7 128 2 | 140.0 139.8 169.8 128.8 | 139.9 137.3 152.0 126.8 | 139.5 142.2 139.9 127.9 | 137.0 149.5 134.5 127.5 | 134 6 144.0 133.9 128.1 | 134.7 159.9 139.6 127.7 |
| Cereals & bakery products Sugar & sweets | 140.0 124.7 | 138.9 122.5 | 140.1 124.5 | 140.5 124.9 | 141.4 125.6 | 141. 0 125.8 | 141.9 126.6 | 141.7 126 1 | 142.4 126.4 | 144.3 127.3 |
| Beverages, nonalcoholic | 113.5 | 122.4 | 113.3 | 114.0 | 114.3 | 114.2 | 115.2 | 114.5 | 113.1 | 115.7 |
| Apparel Apparel, commodities less footwear Footwear | 122.8 117.4 | 114.6 113.1 | 121.8 117.3 | 118.8 116.1 | 120.5 116.3 185.8 | 125 8 118.6 185.8 | 127.4 120.5 185.9 | 126.4 119.6 187.2 | 123.8 118.4 190.5 | 122.0 117.3 195.8 |
| Tobacco & smoking products Beverages, sicoholic | 181.5 129.3 | 174.1 126.2 | 180.9 129.3 | 185.7 1 29.9 | 130.2 | 130.0 | 131.0 | 130.9 | 130.9 | 137.3 |

^{1/} Beef, vesi, lamb, pork, & processed meat. 2/ includes butter. 3/ Excludes butter.

Information contact: Ann Duncan (202) 219-0313.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

| | Annual | | | 1990 | | | | | | 1991 |
|--|----------------|------------------------|----------------|----------------|----------------|------------------------|----------------|----------------------------|----------------|----------------|
| | 1988 | 1989 | 1990 P | Jan | Aug | Sept R | Oct | Nov | Dec | Jan |
| | | | | | 1982 = 10 | 0 | | | | |
| Finished goods 1/ | 108.0 | 113.6 | 119.2 | 117.6 | 119.3 | 120.4 | 122.3 | 122.9 | 121.9 | 121.9 |
| Consumer foods | 112.6 | 118.7 | 124.4 | 123.9 | 124.9 | 124.2 | 124.6 | 125.1 | 124.1 | 124.6 |
| Fresh fruit Fresh & dried vegetables | 113.5 105.5 | 113.2 116.7 | 117.3 118.1 | 112.1 181.5 | 120.7 98.0 | 117.6 94.3 | 117.3 101.5 | 121.1 117.0 | 119.5 95.7 | 125.0 97.0 |
| Dried fruit | 99.1 | 103.0 | 96.5 | 105.2 | 105.0 | 106.3 | 110.0 | 110.4 | 110.5 | 110.3 |
| Canned fruit & juice Frozen fruit & juice | 120.2 129.8 | 122.7 123.0 | 126.9 138 9 | 124.3 129.3 | 128.1 146.4 | 128.6 139.9 | 127.8 137.0 | 125.1 119.1 | 125.1 116.3 | 126.2 113.0 |
| Fresh veg. excl. potatoes | 100.4 | 103.9 | 107.8 | 164.0 | 79.0 | 79.4 | 96.2 | 117.7 | 87.2 | 89.3 |
| Canned veg. & Juices Frozen vegetables | 108.3 108.6 | 118. 6 115.5 | 118.7 118.5 | 117.9 117.6 | 115.2 118.3 | 115.4 118.5 | 114.4 131.0 | 114.5 118.9 | 114.0 119.0 | 114.8 119.3 |
| Potatose | 113.9 | 153.6 | 157.3 | 162.0 | 161.9 | 155.4 | 121.6 | 129.4 | 135.5 | 134.0 |
| Eggs Bakery products | 98.6 126.4 | 119.6 135.4 | 117.6 140.9 | 164.8 138.7 | 114.4 141.0 | 112.6 141.9 | 121.6 142.4 | 125.0 142.4 | 124.5 142.6 | 140 0 144.4 |
| Meats | 99.9 | 104.8 | 118.9 | 110.6 | 119.8 | 117.2 | 119.5 | 119.6 | 119.6 | 117.5 |
| Beef & veal Pork | 101.4 95.0 | 108.9 97.7 | 116.0 119.7 | 113.1 107.2 | 116.2 126.2 | 114.1 121.0 | 117.4 124.0 | 119.7 120.7 | 121.2 119.6 | 117.6 117.7 |
| Processed poultry | 111.6 | 120.4 | 113.6 | 107.1 | 114.4 | 116.7 | 110.0 | 108.6 | 108.6 | 108.0 |
| Fish | 148 7 | 142.9 | 148.6 | 148.5 | 138.9 | 140.0 | 143.6 | 157.7 | 160.2 | 186.7 |
| Dairy Products Processed fruits & vegetables | 102.2 113 8 | 110.6 119.9 | 117.2 124.8 | 120.5 122.4 | 120.2 125.8 | 119.0 124.9 | 117.4 124.2 | 114.9 120.7 | 112.2 120.2 | 111.5 119.8 |
| Shortening & cooking oil | 118.8 | 116.6 | 123.2 | 117.0 | 129.4 | 127.3 | 122.7 | 119.2 | 120.4 | 119.8 |
| Consumer finished goods less foods | 103.1 | 108.9 | 115.2 | 113.2 | 115.1 | 117.7 | 120.6 | 121.3 | 119.8 | 119.4 |
| Beverages, alcoholic | 111.8 | 115.2 | 117.2 | 115.5 | 116.8 | 117.3 | 117.4 | 117.4 | 117.0 | 124.3 |
| Soft drinks Apparel | 114.3 111.7 | 177.7 114.5 | 122.3 117.4 | 122.1 116.8 | 121.6 118.0 | 121.7 118.1 | 122.4 118.0 | 122. 0 117.9 | 123.0 117.3 | 124.9 117.8 |
| Footwear | 115.1 | 120.8 | 125.6 | 124.2 | 125.8 | 120.1 | 126.1 | 125 8 | 120.1 | 128.5 |
| Tobacco products | 171.9 | 194.8 | 221.5 | 212.3 | 224.3 | 225.0 | 224.8 | 230.4 | 236.4 | 237.6 |
| Intermediate materials 2/ | 107.1 | 112.0 | 114.5 | 113.4 | 114.4 | 116.3 | 117.8 | 117.8 | 116.7 | 116.4 |
| Materials for food manufacturing | 108.0 | 112.7 | 117.9 | 115.5 | 120.4 | 118.8 | 118.8 | 115.0 | 118.4 | 115.4 |
| Flour Refined sugar 3/ | 105.7 108.9 | 114.6 118.2 | 103.6 122.7 | 113.4 122.4 | 96.5 122.6 | 94.8 123.1 | 93.6 123.1 | 92.0 123.0 | 92.6 122.9 | 91.3 122.9 |
| Crude vegetable oils | 116.6 | 103.1 | 115.7 | 100.2 | 126.4 | 124.1 | 115.2 | 105.0 | 111.2 | 109.4 |
| Crude material # 4/ | 96.0 | 103.1 | 108.9 | 106.5 | 110.2 | 115.1 | 115.3 | 118.8 | 110.5 | 113.6 |
| Foodstuffs & feedstuffs | 108.1 | 111.2 | 113.2 | 113.5 | 113.2 | 110.8 | 110.8 | 108.0 | 108.5 | 107.4 |
| Fruits & vegetables 5/ Grains | 108.5 97.9 | 114.6 106.4 | 117.2 97.5 | 139.1 100.8 | 107.4 92.1 | 104.0 88.3 | 107.9 85.8 | 118.2 85.1 | 105.7 88.0 | 108.8 85.9 |
| Livestock | 103.3 | 108.1 | 115.6 | 110.7 | 117.8 | 113.3 | 110.5 | 113.9 | 114.3 | 122.9 |
| Poultry, live | 121.5 | 128.8 | 118.6 | 108.9 | 122.1 | 128.9 | 110.2 | 108.3 | 104.2 | 110.4 |
| Fibers, plant & animal | 98.4 | 107.8 | 117.8 | 104.8 | 125.1 | 118.8 | 116.4 | 115.0 | 116.9 | 115.2 |
| Fluid milk Oilsead | 89.4 134.0 | 98.8 123.8 | 101.3 111.8 | 114.7 106.1 | 105.5 114.8 | 10 6.0 120.1 | 104.6 119.8 | 91.7 111.0 | 87.5 115.8 | 84.6 109.6 |
| Tobacco, leaf | 87.2 | 93.8 | 95.0 | 93.7 | 93.1 | 100.9 | 98.9 | 98.9 | 98.9 | 100.2 |
| Sugar, faw cane | 111.9 | 115.5 | 119.2 | 118.9 | 119.6 | 119.7 | 119.3 | 119.4 | 117.2 | 114.5 |
| All commodities | 108.9 | 112.2 | 115.3 | 114.9 | 116.5 | 118.4 | 120 8 | 120.1 | 118.6 | 116.9 |
| Industrial commodities | 106.3 | 111.6 | 115.8 | 114.1 | 115.0 | 118.4 | 121.3 | 120.6 | 118.9 | 119.3 |
| All foods 6/ | 111.5 | 117.8 | 123.2 | 122.8 | 124.0 | 122.9 | 123.0 | 123.6 | 122.5 | 122.8 |
| Farm products & | 110.0 | 445.4 | 440.0 | 440.0 | 440.4 | 44= 0 | 140.1 | 44= 4 | 44* | 11= 4 |
| processed foods & feeds Farm products | 110.0 104.9 | 115.4 110.9 | 118.6 112.2 | 118.3 | 119.1 111.4 | 117.9 109.2 | 118.1 109.8 | 117.4 108.3 | 117.0 107.8 | 117.0 108.9 |
| Processed foods & feeds 6/ | 112.7 | 117.8 | 121.9 | 120.2 | 123.0 | 122.4 | 122.2 | 121.9 | 121.7 | 122.1 |
| Cereal & bakery products | 123.0 | 131.1 | 134.1 | 133.2 | 134.2 | 133.7 | 134 2 | 134.0 | 134.3 | 135.4 |
| Sugar & confectionery Beverages | 114.7 114.3 | 120.1 118.4 | 123.1 120.8 | 121.1 119.7 | 123.7 120.6 | 123.9 120.8 | 123.0 120.7 | 125.0 120.8 | 124.9 120.7 | 126.2 124.3 |
| 20101aga+ | 114.3 | 110.9 | 120.0 | 10.7 | 120.0 | 120.0 | 120.7 | 120.0 | 120.7 | 124.3 |

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types & sizes of refined sugar. 4/ Products entering market for the first time that have not been manufactured at that point. 5/ Fresh & dried. 6/ Includes all raw, intermediate. & processed foods (excludes soft drinks, sicoholic beverages, & manufactured animal feeds). R = revised.

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Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

| | | Annual | | | | 1 | 990 | | | 19 |
|--|----------------|----------------------------|------------------------|----------------|----------------------------|----------------|----------------|------------------------|------------------------|----------|
| | 1988 | 1989 | 1990 P | Jan | Aug | Sept | Oct | Nov | Dec | J. |
| arket basket 1/ | 448.5 | 404.0 | 100 5 | 132.2 | 134.0 | 134.1 | 134.6 | 135.2 | 135.4 | 137 |
| Retail cost (1982–84=100) | 118.5 100.5 | 124. 6 107.1 | 133.5 113.2 | 116.5 | 113.6 | 112.0 | 110.7 | 110.0 | 108.5 | 100 |
| Farm value (1982–84±100) Farm–retail epread (1982–84=100) | 125.1 | 134.1 | 144.4 | 139.5 | 144.5 | 148.0 | 147.5 | 148.7 | 150.0 | 153 |
| Farm value-retail cost (%) | 30.2 | 30.1 | 29.7 | 31.4 | 29.6 | 29.3 | 26.6 | 26.5 | 27.6 | 27 |
| Retail cost (1982-84=100) | 112.2 | 116.7 | 126.5 | 122.3 | 130.5 | 131.0 | 131.7 | 133.1 | 133.6 | 133 |
| Farm value (1982-84=100) | 99 5 | 103.3 | 118.6 | 111.2 | 120.2 | 114.9 | 119.0 144.8 | 118.5 150.1 | 114.3 153.4 | 153 |
| Farm-retail epread (1982-84=100) | 125.2 | 130.4 | 140.6 | 133.7 48.1 | 141.1 48.7 | 147.5 | 45.7 | 44.3 | 43.3 | 43 |
| Farm value—retail cost (%) iry products | 44.9 | 44.6 | 48.0 | | | | 126.6 | 128.1 | 126.7 | 12 |
| Retail cost (1982-84=100) | 108.4 | 115.6 99.1 | 126.5 | 125.5 115.2 | 127.3 105.0 | 127.6 105.6 | 99.2 | 95.7 | 88.8 | 6 |
| Farm value (1982-84=100) | 90.6 124.7 | 130.6 | 101.9 149.2 | 135.6 | 147.6 | 147.9 | 155.7 | 157.9 | 161.7 | 16 |
| Farm-retail spread (1982-84=100) Farm value-retail cost (%) | 40.1 | 41.1 | 38.6 | 43.9 | 39.6 | 39.7 | 37.0 | 35.9 | 33.6 | 3 |
| ultry Poteil coet (1992–84–100) | 120.7 | 132.7 | 132.5 | 128.6 | 133.6 | 134.6 | 133.7 | 130.5 | 129.7 | 13 |
| Retail cost (1982-84=100) Farm value (1982-84=100) | 110.2 | 117.1 | 107.6 | 100.6 | 109.3 | 115.1 | 99.0 | 97.2 | 95.3 | 10 |
| arm-retail spread (1982-84=100) | 132.6 | 150.6 | 161.1 | 160.9 | 181.6 | 157.1 | 173.7 | 168.6 | 169.3 | 16 |
| arm value-retail cost (%) | 48.9 | 47.2 | 43.5 | 41.9 | 43.0 | 45.7 | 39.8 | 39.9 | 39.3 | |
| letail cost (1982–84=100) | 93.6 | 116.5 | 124.1 | 143.9 | 119.6 | 120.6 | 125.5 | 128.5 | 128.7 | 13 12 |
| arm value (1982-84=100) | 78.7 | 107.5 | 108.0 | 135.4 | 100.0 154.7 | 105.9 147.1 | 114.3 145.7 | 113. 8 155.0 | 120.8 142.8 | 16 |
| arm-retail spread (1982-84=100) | 123.9 | 138.1 | 153.2 55.9 | 159.1 60.5 | 53.7 | 58.4 | 58.5 | 56.9 | 60.3 | |
| arm value-retail cost (%) | 52.7 | 58.3 | 30.9 | OU.D | Q-3.7 | | | | | |
| real & bakery products letail cost (1982-84=100) | 122.1 | 132.4 | 140.0 | 136.9 | 141.4 | 141.6 | 141.9 | 141.7 | 142.4 | 14 |
| arm value (1982-84=100) | 92.7 | 101.7 | 90.5 | 101.1 | 85.7 | 61.5 | 76.7 | 77.6 | 78.6 | - 3 |
| arm-retail epread (1982-84=100) | 126.2 | 138.7 | 148.9 | 141.9 | 149.2 | 150.0 | 150.7 6.6 | 150.6 6.7 | 151.3 6.6 | 15 |
| arm value-retail cost (%) | 9.3 | 9.4 | 7.9 | 9.0 | 7.4 | 7.0 | 0.6 | 0.7 | 0.0 | |
| sh truite | 145.4 | 154.7 | 174.6 | 177.3 | 173.1 | 171.9 | 167.2 | 169.3 | 176.6 | - 10 |
| etail cost (1982–84=190) arm value (1982–84=190) | 118.5 | 108.5 | 126.2 | 131:8 | 121.2 | 126.7 | 128.1 | 150.8 | 132.4 | 20 |
| arm-retail spread (1982-84=100) | 158.7 | 178.0 | 195.9 | 198.4 | 197.0 | 192.7 | 185.2 | 177.9 | 197.0 | 11 |
| arm value-retail cost (%) | 25.3 | 22.2 | 23.2 | 23.5 | 22.1 | 23.3 | 24.2 | 26.1 | 23.7 | : |
| sh vegetables | 400.0 | 440.4 | 484.4 | 176.9 | 139.8 | 137.3 | 142.2 | 149.5 | 144.0 | 19 |
| letail costs (1982-84=100) | 129.3 | 143.1 123.3 | 151.1 124.2 | 202.3 | 108.2 | 98.8 | 100.2 | 108.2 | 105.3 | 11 |
| arm value (1982-84=100) | 105.8 141.3 | 153.2 | 165.0 | 163.0 | 156.0 | 157.1 | 183.8 | 170.7 | 163.9 | 18 |
| arm-retail spread (1982–84=190) arm value-retail cost (%) | 27.8 | 29.3 | 27.9 | 38.8 | 26.3 | 24.4 | 23.9 | 24.6 | 24.8 | |
| cessed fruita & vegetables | 2710 | | | | | | | 400.0 | 404.0 | 4. |
| letail cost (1982-84=100) | 117.6 | 125.0 | 132.7 | 125.1 | 135.0 | 135.0 | 134.3 | 132.8 147.8 | 131. 6 140.3 | 1: 1: |
| arm value (1982–84=100) | 136.8 | 133.6 | 147.2 | 133.3 | 148.6 | 151.0 130.0 | 148.7 128.5 | 128.1 | 128.9 | - 1 |
| arm-retail spread (1982-84=100) | 111.7 | 122.3 25.4 | 128.1 26.4 | 122.5 25.3 | 130.7 2 6 .2 | 26.6 | 28.5 | 26.5 | 25.3 | |
| ārm valus—retail costs (%) ts & oils | 27.8 | 23.4 | 20.4 | 20.0 | | | | | | |
| Retail cost (1982-84=100) | 113.1 | 121.2 | 126.3 | 123.5 | 127.4 | 128.2 | 128.1 | 128.8 | 131.0 | 1 |
| arm value (1982–84=100) | 103.0 | 95.6 | 106.2 | 92.8 | 113.5 | 109.8 | 105.9 | 100.4 | 102.5 141.5 | 11 |
| arm-retail spread (1982-84=100) | 116.8 | 130.6 | 133.7 | 134.8 20 2 | 132.5 24.0 | 135.0 23.0 | 136.3 22.2 | 139.2 21.0 | 21.0 | • |
| arm value-retail cost (%) | 24.5 | 21.2 | 22.6 | 20 2 | 24.0 | | 1990 | 21.0 | 2 | 1 |
| | | Annual | 1000 0 | lan | Aug | Sept | Oct | Nov | Dec | |
| ef. Choice | 1988 | 1989 | 1990 P | Jan | Aug | | | | 295.3 | 2 |
| Petail price 2/ (ct#./lb.) | 250.3 | 265.7 | 281.0 | 274.4 | 280.6 | 280.6 186.8 | 262.7 192.2 | 291.6 197.6 | 199.4 | 1 |
| Vholesale value 3/ (cts.) | 169.4 | 178.8 157.6 | 189. 6 168.4 | 187.1 167.6 | 187.1 166.7 | 166.7 | 171.0 | 174.7 | 174.7 | 1 |
| let farm value 4/ (cts.) Farm-retail spread (cts.) | 148.3 102.0 | 108.1 | 112.8 | 106.8 | 113.0 | 113.9 | 111.7 | 118.9 | 120.6 | 1 |
| Wholesele-retail 5/ (cts.) | 80.9 | 88.9 | 91.4 | 87.3 | 93.5 | 94.0 | 90.5 | 94.0 | 95.9 | 1 |
| Farm-wholesale 6/ (cts.) | 21.1 | 19.2 | 21.2 | 19.5 | 20.4 | 19.9 | 20.8 | 22.9 | 24.7 59 | |
| Farm value-retail price (%) | 59 | 59 | 60 | 61 | 59 | 50 | 61 | 60 | 2/8 | |
| ork | 183.4 | 182.9 | 212.6 | 195.1 | 224.9 | 220.8 | 223.2 | 222.9 | 223.2 | 2 |
| Petail price 2/ (cts./lb.) Wholesale value 3/ (cts.) | 101.0 | 99.2 | 118.3 | 104.8 | 120.5 | 120.7 | 124.4 | 119.7 | 117.5 | 1 |
| Vet farm value 4/ (cts.) | 69.4 | 70.4 | 87.2 | 76.6 | 90.4 | 0.88 | 91.2 | 79.1 | 77 3 | |
| rm-retail spread (cts.) | 114.0 | 112.5 | 125.4 | 110.5 | 134.5 | 132.8 | 132.0 | 143.8 | 145.9 | 1 |
| Wholesale-retail 5/ (cts.) | 62.4 | 83.7 | 94.3 | 90.3 | 104.4 | 100.1 | 98.8 | 103.2 | 105.7 | 1 |
| Farm-wholesale 6/ (cts.) | 31.6 | 28.8 | 31.1 | 28.2 | 30.1 | 32.7 | 33 2 | 40.8 35 | 40.2 35 | |
| rm value-retail price (%) | 38 | 38 | 41 | 39 | 40 | 40 | 41 | .57 | 33 | |

^{1/} Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit, less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as greding & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted sverses price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS. 3/ Value of wholessle (boxed beef) & wholessle cuts (pork) equivalent to 1 lb. of retail cuts adjusted for transportation costs & byproduct values. 4/ Market value to producer for live animal equivalent to 1 lb. of retail cuts, minus value of byproducte. 5/ Charges for retailing & other marketing services such as wholessling, and in-city transportation. 6/ Charges for livestock marketing, processing, & transportation.

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(See the March 1991 issue.) Information contact: Denis Dunham (202) 219-0870.

Livestock & Products

Table 10.—U.S. Meat Supply & Uşe

| | | | | | | | Cone | umption | |
|----------------------------|----------------|--------------------|----------------|--------------------------|------------|---------------|------------------|------------------|-------------------------------|
| | Beg. | Produc- tion 1/ | Importe | Total supply | Exporte | Ending etocks | Total | Per capita 2/ | Primary market price 3/ |
| | | | Mil | lion pounds 4/ | | | | Pounds | |
| Beef | | | | | | | | | |
| 198 8 1989 | 388 422 | 23,589 23,087 | 2.379 2.175 | 26,354 25,684 | 1,023 | 422 335 | 25,252 | 72.3 68.9 | 71,19 73,86 |
| 1990 | 335 | 22,736 | 2,356 | 25,427 | 1.006 | 397 | 24,326 24,024 | 67.5 | 78.56 |
| 1991 F | 397 | 23,088 | 2,270 | 25,765 | 1,040 | 315 | 24,400 | 68.0 | 76-82 |
| Pork | 200 | 15.004 | 4.407 | 47.404 | | | | | 40.00 |
| 1988 1989 | 360 437 | 15,684 15,813 | 1,137 896 | 17,181 17,146 | 195 262 | 437 313 | 16,549 16,571 | 52.2 51.7 | 43.39 44.03 |
| 1990 | 313 | 15,345 | 897 | 10,555 | 239 | 296 | 18,020 | 49.5 | 54.45 |
| 1991 F | 296 | 15,679 | 945 | 16.920 | 240 | 296 375 | 16,305 | 50.0 | 50-58 |
| Veal 5/ | | | 47 | 447 | | _ | | | |
| 1988 1989 | 4 5: | 398 355 | 27 | 427 360 | 10 | 5 | 412 356 | 1.4 1.2 | 89.85 91.84 |
| 1990 | ·4 | 330 | 0, | 334 | ŏ | 4, | 328 | 1.1. | 98.51 |
| 1991 F | ď: | 359 | ō | 365 | ő | 4 | 361 | 1.2 | 97-103 |
| Lamb & mutton 1988 | .8 | 335 | ** | 394 | | | 387 | 1.4 | 68.28 |
| 1989 | .0 | 347 | 51 63 | 418 | 1 2 | 8 | 408 | 1.5 | 67.32 |
| 1990 | 8 | 364 | 59 | 431 | 3 | 6 | 420 | 1.5 | 55.54 51-67 |
| 1991 F | 8 | 366 | 55 | 429 | 2 | 7 | 420 | 1.6 | 51-57 |
| Total red meat 1988 | 758 | 40,004 | 3.594 | 44,356 | 888 | 870 | 42,600 | 127.2 | - |
| 1989 | 870 | 39,602 | 3,134 | 43,806 | 1,287 | 600 | 41,659 | 123 2 | - |
| 1990 | 860 | 38,775 | 3.312 | 42,747 | 1,248 | 707 | 40,792 | 119.6 | - |
| 1991 F | 707 | 39,492 | 3,270 | 43.489 | 1,282 | 701 | 41,496 | 120.7 | - |
| Broilers 1988 | 25 | 18,187 | a | 16,212 | 765 | 20 | 15,410 | 62.6 | 58.3 |
| 1989 | 38 | 17,428 | g | 17,464 | 614 | 36 38 | 18,812 | 66.8 | 59.0 |
| 1990 | -38 | 18,668 | 0 | 18,706 | 1,143 | 28 | 17,536 | 69.9 | 54.8 |
| 1991 F | 26 | 19.727 | 0 | 19.753 | 1,025 | 30 | 18,698 | 73.9 | 51-57 |
| Mature chicken 1988 | 188 | 633 | 0 | 821 | 26 | 157 | 639 | 2.6 | _ |
| 1989 | 157 | 575 | 0, | 731 | 26 24 | 189 | 518 | 2.1 | _ |
| 1990 | 189 | 565 | 0 | 754 | 25 | 224 | 505 | 2.0 | |
| 1991 F | 224 | 553 | 0 | 778 | 26 | 225 | 527 | 2.1 | |
| Turkeys 1988 | 204 | 3,960 | 0 | 4.228 | 51 | 250 | 3,928 | 15.9 | 81.2 |
| 1989 | 266 250 | 4,276 | 0 | 4.528 | 41 | 238 | 4.250 | 17.1 | 66.7 |
| 1990 | 236 | 4,676 | 0 | 4,912 | 54 | 308 | 4,551 | 18.1 | 63.2 |
| 1991 F | 306 | 4,912 | 0 | 5.218 | 54= | 260 | 4,904 | 19.4 | 59-65 |
| Total poultry 1988 | 479 | 20,780 | 0 | 21.250 | 842 | 442 | 19.975 | 81.1 | _ |
| 1989 | 442 | 22,280 | 0 | 21,259 22,7 22 | 878 | 483 | 21.380 | 85.9 | _ |
| 1990 | 463 | 23,908 | 0 | 24.372 | 1,222 | 557 | 22.593 | 90.0 | _ |
| 1991 F | 557 | 25,192 | 0 | 25.748 | 1,105 | 5 15 | 24,128 | 95.4 | _ |
| Red meat & poultry 1988 | 1 227 | 80,784 | 3,594 | 85,615 | 1,728 | 1,312 | 62.574 | 208.3 | |
| 1989 | 1,237 1,312 | 61.882 | 3,134 | 66.328 | 2,165 | 1,123 | 63,039 | 209.2 | |
| 1990 | 1,123 | 62,683 | 3.312 | 67.119 | 2,470 | 1,264 | 63,385 | 209.6 | |
| 1991 F | 1,264 | 64,684 | 3,270 | 69.217 | 2,387 | 1,216 | 65,614 | 216.0 | |

1/ Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcase-to-retail conversion factor was .71 for 1987, & 70.5 for 1988-90.) 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Medium # 1, Nebraska Direct 1,100-1,300 lb.; pork; barrows & gilts, 7 markets; veal: farm price of calves; lamb & mutton: Choice slaughter lambs, San Angelo: broilers; wholesale 12-city average; turkeys: wholesale NY 8-16 lb. young hens. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1989 veal trade no longer reported separately. F = forecast — = not available.

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Table 11.—U.S. Egg Supply & Use

| | | Pro- | | | | Hatch- | | "Consur | nption | |
|--|--|--|--|--|---|--|--|--|--|---|
| | Beg. stocks | duc- tion | im- porte | Total supply | Ex- porte | ing | Ending stocks | Total | Per capite | Wholesale price* |
| | | | | Million dozen | | | | | | Cts./doz. |
| 1986 1987 1988 1989 1990 1991 F | 10.7 10.4 14.4 15.2 10.7 11.6 | 5.706.3 5.868.2 5.784.2 5.597.8 5.659.2 5.715.0 | 13.7 5.6 5.3 25.2 9.1 7.0 | 5,790.7 5,884.2 5,803.9 5,638.2 5,678.9 5,733,6 | 101.6 111.2 141.8 91.6 100.5 104.0 | 566.8 599.1 605.9 642.9 675.8 720.0 | 10.4 14.4 15.2 10.7 11.6 12.0 | 5.111.9 5.159.5 5.041.0 4,893.0 4,890.9 4,897.5 | 253.8 253.8 245.6 236.0 233.8 232.3 | 71.1 61.6 62.1 81.9 82.2 74–80 |

^{*} Cartoned grade A large eggs, New York, F = forecast.

Information contact: Maxine Davie (202) 219-0767.

Table 12.—U.S. Mllk Supply & Use1

| | | | Com | mercial | | Total | | Comm | All | |
|--------|----------------------|-------------|-------------------------|---------------|--------------|----------------|--------------------------|---------------|-------------------------|---------------------|
| | Pro- duo- tion | Farm uee | Farm market- inga | Beg. stock | lm- porte | cial supply | CCC net re- movals | Ending stocks | Disap- pear- ence | milk price 2/ |
| | | | | | Billion pour | nd# | | | | |
| 1983 | 139.6 | 2.4 | 137.2 | 4.6 | 2.6 | 144.4 | 16.8 | 5.2 | 122.4 | 13.58 |
| 1984 | 135.4 | 2.9 | 132.4 | 5.2 | 2.7 | 140.4 | 8.6 | 4.9 | 126.8 | 13.48 |
| 1985 | 143.0 | 2.5 | 140.6 | 4.9 | 2.8 | 148.3 | 13.2 | 4.6 | 130.5 | 12.75 |
| 1985 | 143,1 | 2.4 | 140.7 | 4.6 | 2.7 | 148.1 | 10.6 | 4.2 | 133.3 | 12.51 |
| 1987 | 142.7 | 2.3 | 140.5 | 4.2 | 2.5 | 147.1 | 6.7 | 4.6 | 135.8 | 12.64 |
| 1988 | 145.2 | 2.2 | 142.9 | 4.6 | 2.4 | 150.0 | 8.9 | 4.3 | 136.8 | 12.24 |
| 1969 | 144.2 | 2.1 | 142.1 | 4.3 | 2.5 | 148.9 | 9.0 | 4.1 | 135.8 | 13,54 |
| 1990 F | 148.3 | | 148.2 | 4.1 | 2.7 | 153.0 | 8.5 | 5.2 | 139.3 | 13,75 |

^{1/} Milkfat basis. Totals may not edd because of rounding. 2/ Delivered to plants & dealers; dose not reflect deductions. F = forecast, information contact: Jim Miller (202) 219–0770.

Table 13.—Poultry & Eggs_

| | | Annual | | | | | 1990 | | | 1991 |
|---|---------------------------------------|---------------------------------------|---|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Brokere | 1988 | 1989 | 1990 | Jan | Aug | Sept | Oct | Nov | Dec | Jan |
| Federally inspected slaughter, certified (mit. lb.) Wholesale price, | 16.124.4 | 17,334.2 | 18,558 | 1,519.6 | 1,091.0 | 1,421.4 | 1,768.6 | 1,584.3 | 1,441 5 | 1.699.3 |
| 12-city (cté.fb.) Price of grower feed (\$/ton) Broller-feed price setto 1/ Stocks beginning of period (mil. b.) Broller-type chicks hetched (mil.) 2/ | 56.3 219 3.1 24.8 5,802.4 | 59.0 237 3.0 35.9 5.944.3 | 54.8 218.3 3 0 38 3 8,300.6 | 51.7 224 2.7 38 3 516 3 | 54.9 221 3 0 30 3 540.8 | 57.4 220 3.2 25.9 508.6 | 48.8 207 2.8 23.9 510.3 | 48.0 209 2.7 26.9 490.2 | 49.6 213 2.7 27.7 647.1 | 51.7 213 2.9 25.1 543.9 |
| Turkeys Federally inspected sleughter, | | | | | | | | | | |
| certified (mil. lb.) Wholesale price, Eastern U.S., | 3.923.4 | 4.174.8 | 4.560.7 | 319.0 | 444.0 | 382 9 | 478 4 | 445.8 | 328.7 | 378.6 |
| 8-16 lb. young here (cts./lb.) Price of turkey grower feed (\$/ton) Turkey-feed price retio #/ Stocke beginning of period (mil. lb.) Poults placed in U.S. (mil.) | 61.2 243 3.0 268.2 261.4 | 86.7 251 3.2 249.7 289.0 | 63 2 238.4 3 2 235.9 304.2 | 55.6, 239 3.0 235.9 24.7 | 66.6 235 3.4 541.7 25.6 | 69.0 239 3.4 593.1 19.7 | 76.2 234 3.5 623 5 21.5 | 73.7 239 3.8 625.1 21.6 | 56 1 237 3.0 338.4 22.8 | 53.5 234 2.9 306.4 25.9 |
| Eggs | 20117 | 200,4 | 4.2 | = 7.17 | 20.0 | | 21.0 | 21.0 | 2.4.0 | 20.9 |
| Farm production (mil.) Average number of layers (mil.) Rate of lay (eggs per layer | 69.410 277 | 67,174 269 | 67,910 270 | 5,702 272 | 5.719 267 | 5.534 268 | 5,785 270 | 5,689 271 | 5,855 272 | 5.811 273 |
| on larme) Cartoned price. New York, grade A | 251 | 250 | 251.7 | 21.0 | 21,4 | 20.6 | 21.5 | 21.0 | 21.5 | 21.3 |
| large (cta/doz.) 3/ Price of laying feed (\$/ton) Egg-feed price ratio 1/ | 62.1 202 5.3 | 81.9 209 8.7 | 82.2 202 6.9 | 92.4 199 6.4 | 80.3 205 5.4 | 82.2 204 6.7 | 26.5 199 7.4 | 86.5 200 7.3 | 92.5 199 7.7 | 87.5 198 8.0 |
| Stocks, first of month | | | | | | | | | | |
| Shell (mil. doz.) Frozen (mil. doz.) | 1,29 13,1 | 0 27 14.9 | 0.38 10.3 | 0.38 10.3 | 0.87 | 0.57 13.0 | 0.54 12.6 | 0.33 12.8 | 0.48 13.0 | 0.45 |
| Replacement chicks hatched (mil.) | 366 | 384 | 400.8 | 32.0 | 33.0 | 32.7 | 32.1 | 30.0 | 31,1 | 33.1 |

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 lb, of broller or turkey liveweight. 2/ Placement of broller chicks is currently reported for 15 States only; henceforth, hatch of broller-type chicks will be used as a substitute. 3/ Price of certoned eggs to volume buyers for delivery to retailers.

Information Contact: Maxine Davis (202) 219-0767.

Table 14.- Dairy

| | | Annual | | | | | 1990 |) | | | | | 1991 |
|---|---|--|--|---|---|--|------|--|----|--|-----|--|---|
| | 1988 | 1989 | 1990 | Jan | Aug | Sept | | Oct | | Nov | | Dec | Jen |
| Milk prices, Minnesota-Wiscontin, 3.5% fat (\$/cwt) 1/ | 11.03 | 12.37 | 12.21 | 13.94 | 13.09 | 12.50 | | 10.48 | | 10 25 | | 10.19 | 10.18 |
| Wholesele prices Butter, grade A Chl. (cts./lb.) | 132.5 | 127.9 | 102.1 | 110.8 | 98.9 | 98.9 | | 98.9 | | 98.9 | | 0.89 | 97.2 |
| Am. cheese, Wis. assembly pt. (cts./jb.) Nonfat dry milk (cts./jb.) 2/ | 123.8 80.2 | 138 8 105.5 | 138.7 100.6 | 152.3 88.2 | 150.3 112.1 | 142.5 92.0 | | 121.2 88.8 | | 112.0 88.8 | | 112.7 88.2 | 111.4 85.2 |
| JSDA net removels Total milk equiv. (mil. lb.) 3/ Butter (mil. lb.) Am. cheese (mil. lb.) Nonlet dry milk (mil. lb.) | 8,856.2 312.8 238.1 267.5 | 8,967.9 413.4 37.4 0 | 8,540.5 400.3 21.5 117.8 | 1,490.9 71.8 0 2.9 | 324.5 15.6 0 | 119.2 5.6 0 15.9 | | 249.9 11.8 0 22.6 | | 273.9 10.8 4.5 34.1 | | 803.4 30.5 17.0 42.8 | 1.757.3 77.5 15.5 55.4 |
| Ailk Milk prod. 21 States (mil. lb.) Milk per cow (lb.) Number of milk cows (1.000) U.S. milk production (mil. lb.) | 123,518 14,291 8,643 145,152 | 122,531 14,369 8,526 144,239 | 125,714 14,769 6,513 146,284 | 10,389 1,217 8,536 12,274 | 10.478 1.233 8.499 12,324 | 9.973 1,171 8,516 6/ 11,732 | | 10,223 1,200 8,516 12,088 | 6/ | 9,998 1,171 8,540 11,821 | 6/ | 10,487 1,225 8,547 12,377 | 10,657 1,252 8,511 6/ 12,591 |
| Stock, beginning Total (mil. lb.) Commercial (mil. lb.) Government (mil. lb.) Imports, total (mil. lb.) 3/ | 7,440 4,646 2,794 2,394 | 8,234 4,280 3,945 2,499 | 8,795 4,131 4,664 2,690 | 8.795 4,131 4,864 183 | 13,552 5,636 7,916 208 | 13,578 5.573 8,003 222 | | 13.092 5,308 7,765 248 | | 12.895 5,151 7,744 262 | | 12.688 5,099 7,589 208 | 12.990 5.210 7.780 |
| Commercial disappearance (mil. lb.) | 138,805 | 135,830 | 139.291 | 11,394 | 12,095 | 11,930 | | 12.068 | | 11,691 | | 11,496 | _ |
| Butter Production (mil. 1b.) Stocks, beginning (mil. 1b.) Commercial disappearance (mil. 1b.) | 1.207.5 143.2 909.8 | 1,273.5 214.7 854.1 | 1,285.7 256.2 898.8 | 127.1 258.2 55.1 | 83.8 420.8 67.5 | 84.8 427.9 86.3 | | 105.0 412.3 92.4 | | 111.0 413.0 97.0 | | 116.5 407.6 85.5 | 142.1 |
| merican cheese Production (mil. lb.) Stocke, beginning (mil. lb.) Commercial diseppearance (mil. tb.) | 2,756.6 370.4 2,570.0 | 2,872.8 293.0 2,681.6 | 2,891.3 238.2 2,781.8 | 231.7 236.2 209 1 | 229.3 362.3 232.1 | 220.5 361.0 231.3 | | 238.9 350.7 248.6 | | 235.4 338.7 238.0 | | 251.8 334.8 229.1 | 247.1 347.4 |
| Mher cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.) | 2.815.4 89.7 3,034.5 | 2,941.3 104.7 3,208.9 | 3,146.7 93.2 3,408.2 | 252.1 93.2 259.8 | 258.6 124.0 290.6 | 256.2 117.0 285.0 | | 266.8 111.1 298.0 | | 253.5 107.1 286.4 | | 264.3 102.9 279.0 | 254.0 110.0 |
| loniat dry milk Production (mil. ib.) Stocks, beginning (mil. ib.) Commercial disappearance (mil. ib.) | 979.7 177.2 734.3 | 874.7 53.1 873.0 | 889.9 49.5 686.3 | 51.4 49.5 58.7 | 62.9 108.7 48.0 | 50.5 123.6 42.2 | | 55.2 121.2 32.9 | | 71.1 129.2 37.3 | | 79.0 143.0 36.5 | 82 6 161.6 |
| Frozen dessert Production (mrl. gal.) 4/ | 1,248.0 | 1,214.0 | 1,187.2 | 79.5 | 118.0 | 94.0 | | 91.3 | | 78.3 | | 74.1 | 78.6 |
| | | Annual | | | 1989 | | | | | | 191 | 90 | |
| | 1988 | 1989 | 1990 | | m | IV | | - 1 | | II P | | III P | IV F |
| uilk production (mil. lb.) Milk per cow (lb.) No. of milk cowe (1,000) Allk-feed price ratio 5/ Beturns over concentrate 5/ | 145,152 14,145 10,262 1,58 9,05 | 144.239 14.244 10.126 1.65 10.08 | 148,284 14,842 10,127 1,72 10,40 | 37,702 3,727 10,115 1.48 8.96 | 35,157 3,461 10,099 1.63 9.92 | 34,939 3,451 10,126 1,92 12,16 | | 36,740 3,827 10,128 1.82 11.30 | | 38,626 3,820 10,111 1,69 10,27 | | 36,632 3,620 10,119 1,76 10,90 | 36,286 3,575 10,151 1,60 9 ,30 |

1/ Manufacturing grade milk. 2/ Prices paid f.o.b, Central States production area. 3/ Milk equivalent, fat basis. 4/ Hard ice cream, Ica milk. & hard sherbet. 5/ Based on average milk price after adjustment for price support deductions. 6/ Estimated. P = preliminary. — = not available.

Information contact: LaVerne T. Williams (202) 219-0770.

Table 15.—Wool

| | | Annual | | | 1989 | | 19 | 90 | |
|--|-------------------|---------------------------|-------------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 1986 | 1989 | 1990 | 161 | IV | - 1 | П | F11 | IV |
| U.S. wool price, (cts./lb.) 1/ Imported wool price, (cts./lb.) 2/ | 438 372 | 370 354 | 256 287 | 350 30 9 | 328 316 | 289 327 | 272 312 | 238 281 | 227 270 |
| U.S. milf consumption, accured 3/ Apparel wool (1,000 lb.) Carpet wool (1,000 lb.) | 117,060 15,633 | 112. 998 14.122 | 114,100 13,470 | 25,983 3,865 | 24,921 2,984 | 29,948 3,779 | 29,998 2,923 | 25,631 3.771 | 28,523 2,977 |

^{1/} Wool price delivered at U.S. mills, clean basis, Graded Territory 84's (20.80-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1962 has been 10.0 cents. 3/ Beginning 1990 mill consumption reported only on a quarterly basis.

Information contact: John Lawier (202) 219-0840.

Table 16.—Meat Animals_

| | | Annual | | | | 1 | 990 | | | 1991 |
|---|------------------|------------------|----------------------------|----------------|------------------|------------------|-----------------|----------------|-----------------|-----------------|
| | 1988 | 1989 | 1990 | Jan | Aug | Sept | Oct | Nov | Dec | Jan |
| Cattle on feed (7 States) | | | | | | | | | | |
| Number on feed (1,000 head) 1/ Placed on feed (1,000 head) | 8.411 | 8.045 | 8.378 | 8,378 | 7,003 | 6,990 | 7,670 | 8,729 | 9,129 | 9,137 |
| Marketings (1,000 head) | 20,654 19,918 | 20,834 19,422 | 21.215 | 1,906 1,644 | 1,735 1,660 | 2,204 1,445 | 2,751 1,605 | 2.007 1,512 | 1,478 | 1,791 |
| Other disappearance (1,000 head) | 1,202 | 1,079 | 19.238 1,218 | 114 | 82 | 79 | 87 | 95 | 121 | 118 |
| Beef steer-corn price ratio. | | | | | | | | | | |
| Omaha 2/ Hog-corn price ratio, Omaha 2/ | 31,5 19.6 | 30.3 18.4 | 32.8 23.1 | 34 2 21.6 | 30.9 23.1 | 34.5 25.1 | 36.5 27.0 | 37.3 23.2 | 36.5 22.0 | 35.3 23.0 |
| Market prices (\$/cwt) | | | | | 24.1 | | 4 | | | |
| Slaughter cattle Choice steers, Omaha 1,000-1,100 lb. | 89.54 | 72.52 | 77.40 | 76,73 | 78.22 | 75.75 | 77.50 | 79.93 | 89.88 | 78.05 |
| Choice steers, Neb. Direct, | | | 77.40 | | | | | | | |
| 1.100-1.300 lb. | 69.54 | 72.52 | 77.40 | 78.14 | 77.18 | 77.60 | 79.33 50.58 | 81.06 | 81.42 | 79.35 49.41 |
| Boning utility cows. Sloux Falls Feeder cattle | 47.21 | 48.98 | 63.60 | 49.89 | 53.81 | 55.41 | 50.56 | 48.75 | 60.35 | 40.41 |
| Medium no. 1, Okiahoma City 600–700 lb. | 84.72 | 86.66 | 92.15 | 87.34 | 96.50 | 94.41 | 92.14 | 93.68 | 95.67 | 94.21 |
| Slaughter hogs | | | | | | | | | | |
| Barrows & gilts, 7-markets Feeder pigs | 43.39 | 44.03 | 54.45 | 47.94 | 66.05 | 55.10 | 57. 15 | 49.70 | 48.15 | 51.00 |
| S. Mo. 40-50 (b. (per head) | 36.06 | 33.63 | 51.46 | 44.58 | 45.85 | 45.91 | 52.33 | 45.22 | 49 63 | 48.50 |
| Slaughter sheep & lambs | an aa | | | | | | E0 F0 | 20.40 | 40.40 | 47.00 |
| Lambs, Choice, San Angelo Ewes, Good, San Angelo | 68.26 38 68 | 67.32 38.58 | 55. 54 35.21 | 54.80 38.30 | 51.20 38.60 | 51.75 32.88 | 52.50 32.00 | 50.42 33,83 | 48.08 34.67 | 47.83 31.94 |
| Feeder lambs Cholca, San Angelo | 90.89 | 79.65 | 62.95 | 72.10 | 58.30 | 55.75 | 55.90 | 57.83 | 59.17 | 50,63 |
| Wholesale meat prices. Midwest | | , | | | • | | | | | |
| Boxed beef cut-out value* | 110.50 | 114.78 | 123.21 | 121.75 | 121.52 | 121.18 | 124.98 | 128.32 | 129.48 | 125.04 |
| Canner & cutter cow beet Pork loins, 14–18 tb, 3/ | 87.77 97.49 | 94.43 101.09 | 99.96 117,52 | 99.89 | 105.22 119.56 | 101.93 121.64 | 96.01 113.71 | 91.11 98.94 | 97.32 103.50 | 95.67 103.60 |
| Pork bellies, 12-14 lb. | 41.25 | 34.14 | 53.80 | 48.65 | 51.08 | 51.31 | 59.83 | 60.57 | 56.58 | 84.11 |
| Hame, skinned, 14-17 /b. | 71.03 | 69.39 | 87.70 | 68.44 | NQ | 101.75 | 107.24 | 108.00 | 86.13 | 73.00 |
| All fresh beef retail price 4/ | 224.81 | 238.97 | 254.99 | 247.61 | 254.71 | 258.39 | 259.36 | 283.40 | 265.75 | 261.30 |
| Commercial slaughter (1,000 head)** | 05.004 | | | | | | | | 0.454 | |
| Cattle Steers | 35,081 17:344 | 33,918 16,536 | 33.220 10,577 | 2,851 7,361 | 2,983 1,508 | 2.815 1.275 | 2,960 1,401 | 2,701 1,302 | 2,451 1,227 | 2,881 1,416 |
| Heifera | 10.754 | 10,408 | 10,089 | 829 | 926 | 842 | 919 | 787 | 694 | 858 |
| Cows | 6,338 | 6.316 | 5,910 | 606 | 486 | 444 | 579 | 559 | 485 | 557 |
| Bulls & stags Caives | 644 | 657 2,172 | 1,807 | 55 181 | 63 | 54 138 | 61 182 | 53 155 | 45 142 | 50 154 |
| Sheep & lambs | 2.507 5,294 | 5,486 | 5,649 | 489 | 152 482 | 439 | 507 | 481 | 464 | 508 |
| Hogs | 87,794 | 88,691 | 85.116 | 7.605 | 7.301 | 8.898 | 7,739 | 7,538 | 7,354 | 7.852 |
| Commercial production (milible) | | 00.074 | 00.040 | 4.000 | 0.000 | 4 445 | | 4.646 | | . 000 |
| Veal Veal | 23.424 387 | 22,974 344 | 22, 0 18 321 | 1.932 27 | 2,062 28 | 1,813 26 | 2,042 31 | 1,842 29 | 1.681 | 1,966 31 |
| Lamb & mutton | 329 | 341 | 360 | 32 | 30 | 27 | 32 | 30 | 27 30 | 33 |
| Pork | 15,623 | 15,759 | 15,291 | 1,363 | 1.309 | 1.228 | 1,389 | 1,374 | 1,342 | 1,397 |
| | | Annual | | 1 | 1989 | | 1 | 990 | | 1991 |
| | 1988 | 1989 | 1990 | (0) | ΙŲ | | 11 | 100 | IV | 1 |
| Cattle on feed (13 States) Number on feed (1,000 head) 1/ | 10,114 | 9,688 | 9.043 | 0.000 | 8.276 | 9,943 | 10,063 | 8,761 | 9.092 | 10,937 |
| Placed on (eed (1,000 head) | 24,423 | 24,469 | 24,946 | 8.680 5,719 | 7,306 | 6,083 | 5,086 | 0.333 | 7.446 | 19,937 |
| Marketings (1,000 head) | 23.459 | 22,940 | 22,561 | 5,896 | 5,346 | 5,578 | 5.988 | 5,741 | 5.254 | 6,745 |
| Other disappearance (1,000 head) | 1,300 | 1.274 | 1,393 | 227 | 293 | 385 | 400 | 281 | 347 | _ |
| Hoge & pigs (10 States) 5/ Inventory (1,000 head) 1/ | 42.875 | 43.210 | 42,200 | 44,020 | 45,200 | 42,200 | 40,190 | 42,800 | 44,410 | _ |
| Breeding (1,000 head) 1/ | 5,435 | 5,335 | 5,280 | 5,565 | 5,335 | 5,280 | 5.250 | 5,440 | 5,340 | _ |
| Market (1,000 head) 1/ | 37.240 | 37,875 | 36,920 | 38,455 | 39,865 | 36.920 | 34,940 | 37,360 | 39,070 | _ |
| Farrowings (1.000 head) | 9,370 | 9.203 | 8,969 | 2,324 | 2,190 | 2,013 | 2.458 | 2.266 B | 2,252 | - |
| Pig crop (1,000 head) | 72,288 | 71,607 | | 18,157 | 16,890 | 15,748 | 19,576 | 17,022 | _ | _ |

^{1/} Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live weight. 3/ Prior to 1984, 8–14 lb.: 1984 & 1985, 14–17 lb; beginning 1986, 14–18 lb. 4/ New series estimating the composite price of all beef grades & ground beef sold by retail stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8. 6/ Quarters are Dec. of preceding year–Feb. (I), Mar.–May (II), & Sept–Nov. (IV). & Intentions.

**Classes estimated. NQ = not quote. —= not available.

Note: "This series replaces the Choice steer beef price, 600-700 1b., which was discontinued with the June number. The new number is the value of Choice beef from 4 yield grade 1-3, 550-700 ib. carcase.

Information contact: Polly Cochran (202) 219-0767.

Crops & Products

Table 17.—Supply & Utilization 1,2

| | | Area | | | | | Frad | Other | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | Set melde 3/ | Planted | Harvest- led | Yleid | Produc- tion | Total supply | Feed and reald- ual | Other domes- tic use | Ex- ports | Total use | Ending elocks | Farm price 5/ |
| | | MII. acres | | Bu /acre | | | | Mil. bo. | | | | \$/bu. |
| Wheat 1985/86 1986/87 1987/88 1988/89* 1989/90* 1990/91* | 18.8 21.0 23.9 22.5 9.6 7.1 | 75.6 72.1 65.8 65.6 76.6 77.3 | 64.7 60.7 56.0 53.2 62.1 69.4 | 37.5 34.4 37.7 34.1 32.7 39.5 | 2,424 2,091 2,108 1,812 2,037 2,739 | 3.865 4.017 3.945 3.096 2.762 3.310 | 284 401 280 157 160 450 | 767 796 806 818 632 853 | 909 999 1,598 1,419 1,233 1,050 | 1.060 2.106 2.684 2.394 2.225 2,353 | 1.905 1.821 1.261 702 536 957 | 3.08 2.42 2.57 3.72 3.72 2.55–2.65 |
| Plea | | Mil. acres | | Lb./acre | | | , | VIII. cwt (rough a | quiv.) | | | \$/cwt |
| Rice 1985/80 1986/87 1987/88 1988/89* 1989/90* 1990/91* | 1.24 1.48 1.57 1.09 1.21 1.03 | 2.51 2.38 2.36 2.93 2.73 2.89 | 2 49 2 38 2 33 2 90 2 69 2 61 | 5,414 5,651 5,555 5,514 5,749 6,507 | 134.0 133.4 129.6 158.0 154.5 154.9 | 201.8 213.3 184.0 195.0 185.4 186.0 | | 6/ 65.8 6/ 77.7 6/ 80.4 6/ 82.3 6/ 82.4 6/ 88.8 | 56.7 84.2 72.2 85.0 76.8 73.0 | 124.5 181.0 152.8 188.2 159.2 181.8 | 77.3 51.4 31.4 26.7 26.3 24.2 | 6.53 3.75 7.27 6.83 7.36 6.25–6.75 |
| Corn | | Mil. scres | | Bu /acre | | | | Mil. bu. | | | | \$/bu. |
| 1985/86 1986/87 1987/68 1988/69* 1989/90* 1990/91* | 5.4 14.3 23.1 20.5 10.8 10.1 | 83.4 76,7 05.2 67.7 72.3 74.2 | 75.2 68 9 59.5 58.3 64.8 67.0 | 118.0 119.4 119.8 64.6 110.2 118.5 | 8.875 8,226 7,131 4,929 7,525 7,933 | 10,534 12,267 12,016 9,191 9,458 9,280 | 4,107 4,701 4,812 3,987 4,456 4,850 | 1,180 1,192 1,229 1,245 1,290 1,320 | 1,227 1,492 1,716 2,028 2,387 1,825 | 6,494 7.325 7.757 7.260 6,113 7,995 | 4.040 4.882 4.259 1,930 1.344 1.286 | 2.23 1.50 1.94 2.54 2.36 2.20-2.40 |
| Carebone | | MII. acres | | Bul/ecre | | | | Mil. bu. | | | | \$/bu. |
| Sorghum 1985/86 1985/87 1987/88 1988/99* 1989/90* | 0.9 3.0 4.1 3.9 3.3 3.0 | 18 3 15.3 11.8 10.3 12.8 10.7 | 16.8 13.9 10.5 9.0 11.2 9.1 | 66.8 67.7 69.4 63.8 55.4 62.9 | 1.120 938 731 577 615 671 | 1.420 1.489 1.474 1,238 1,055 791 | 664 536 555 468 517 500 | 28 12 25 22 15 15 | 176 198 231 310 304 200 | 869 746 811 800 835 715 | 551 743 663 440 220 76 | 1.93 1.37 1.70 2.27 2.10 2.05–2.15 |
| Barley | ı | Mil. acres | | Bul/acre | | | | Mil. bu. | | | | \$/bu. |
| 1985/86 1986/87 1987/88 1988/89 1989/90 1990/91 | 0.7 2.1 2.9 2.8 2.3 2.6 | 13.2 13.1 11.0 9.8 9.2 8.3 | 11 6 12 0 9.9 7.6 8 3 7.5 | 51.0 50.8 52.4 38.0 48.0 55.0 | 591 611 521 290 404 419 | 848 944 869 622 614 587 | 333 298 254 166 1588 | 169 174 174 180 180 185 | 22 137 120 79 84 90 | 523 508 548 425 453 450 | 325 336 321 196 161 137 | 1.98 1.81 1.81 2.80 2.42 2.10=2.15 |
| | | Mil acres | | Bu./acre | | | | Mil. bu. | | | | \$/bu. |
| Oate 1985/88 1986/87 1987/88 1988/89* 1989/90" 1990/91" | 0.1 0.8 0.8 0.3 0.4 0.2 | 13.3 14.7 18.0 13.0 12.1 10.4 | 8.2 5.9 9.9 5.5 6.9 6.9 | 63.7 58.3 54.0 39.3 54.3 60.1 | 521 386 374 218 374 357 | 728 503 552 393 538 574 | 460 395 358 194 265 330 | 82 73 81 100 115 120 | 2 3 1 1 1 | 544 471 440 294 381 451 | 184 133 112 98 157 124 | 1.23 1.21 1.58 2.01 1.49 1.10-1.15 |
| Carbana | 1 | Mil. ecres | | Bu./ecre | | | | Mil. bu. | | | | \$/bu. |
| Soybeans 1985/88 1986/87 1987/88 1988/89* 1989/90" 1990/91* | 0000 | 63.1 60.4 58.2 58.8 60.8 57.8 | 61.6 58.3 57.2 57.4 59.5 56.5 | 34.1 33.3 33.9 27.0 32.3 34.0 | 2.099 1.940 1.938 1.549 1.924 1.922 | 2.415 2.470 2.374 1.855 2.109 2.163 | 0 0 0 | 1.053 1.170 1,174 1,058 1,140 1,165 | 740 757 802 527 623 650 | 1,879 2,040 2,072 1,673 1,670 1,613 | 536 436 302 182 239 350 | 5.05 4.78 5.88 7.42 5.70 5.40-6.00 |
| Cartan all | | | | | | | | MIL Ibii. | | | | 7/ Cts./lb. |
| Soybean ol! 1985/86 1986/87 1987/88 1988/89" 1988/90" 1989/90" | | - | 61-64 61-68 61-69 61-69 61-68 | - | 11.617 12.783 12.974 11,737 13.004 13.025 | 12.257 13.745 8/ 14.895 8/ 13.967 8/ 14.741 8/ 14.350 | | 10.053 10.833 10.930 10.591 12.083 12.000 | 1.257 1.187 1.873 1.681 1,353 1,000 | 11,310 12,020 12,803 12,252 13,438 13,000 | 947 1.725 2.092 1.715 1,305 1.350 | 18.00 15.40 22.65 21.10 22.30 21.0-23.0 |
| Soybean meal | | | | | | | | 1,000 tons | | | | 9/ \$/ton |
| 1985/86 1984/87 1987/88 1988/89* 1989/90* 1990/91* | | | | ======================================= | 24,951 27,758 28,060 24,943 27,719 27,822 | 25,338 27,970 28,300 25,100 27,900 27,950 | | 19,090 20,387 21,293 19,639 22,658 22,600 | 8.038 7.343 6.854 5.288 5.024 5,000 | 25,125 27,730 28,147 24,927 27,582 27,600 | 212 240 153 173 318 350 | 155 163 222 233 174 150-170 |

See footnotes at end of tuble.

Table 17.—Supply & Utilization, continued

| | | Area | | | | | Feed | Other domes- | | | | |
|---|--|--|--|--|---|--|---------------|--|--|-------------------------------------|--|---|
| | Set Aside 3/ | Planled | Harves- ted | Yield | Produc- tion | Total supply | Feeld- ual | nee nee | Ex- ports | Total uee | Ending Stocks | Farm price 6/ |
| Cotton 10/ | | Mil. acres | | Lb./acre | | | | Mil. balen | | | | |
| 1985/86 1985/87 1987/88 1983/89* 1989/90* 1990/91* | 3.6 4.2 3.9 2.2 3.5 1.9 | 10.7 10.0 10.4 12.6 10.6 12.4 | 10.2 8.6 10.0 12.0 9.5 11.7 | 630 652 706 619 614 640 | 13.4 9.7 14.8 15.4 12.2 15.6 | 17.6 19.1 19.8 21.2 19.3 18.6 | 8 | 6.4 7.4 7.8 7.8 8.8 8.4 | 2 0 8.7 8 8 6.2 7.7 8.0 | 6.4 14.1 14.2 13.9 16.4 | 9.4 5.0 5.8 7.1 3.0 2.3 | 56.50 52.40 64.30 56.60 68.20 |

*March 11, 1991 Supply & Demand Estimates. 1/ Marketing year beginning June 1 for wheat; barley, & cats, August 1 for cotton & rice, September 1 for soybeans, corn. & sorghum, October 1 for soymeal & soyol), 2/ Conversion factors: Hectare (hs.) = 2.471 acres, 1 metric ton = 2204.822 pounds, 38 7437 bushels of wheat or soybeans, 39 3679 bushels of corn or sorghum, 45.9296 bushels of barley, 68.8944 bushels of cats, 22.046 cwt of rice, & 4.59 480-pound bales of cotton. 3/ includes a diversion. Plf, acreage reduction, 50.-92, & 0-92 programs. 4/ includes imports. 3/ Market average prices do not include an allowance for loans outstanding & Government purchases. & Residual included in domestic use 7/ Average of crude soybean oll, Decatur. 3/ includes 198 million provide for 1987/88, 138 million in 1989/89, a 50 million in 1989/90, & 50 million in 1990/91. 9/ Average of 44 percent, Decatur. 10/ Upland & extra long staple. Stocks estimates based on Census Bureau data, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. — « not available or not applicable.

Information contact: Commodity Economics Division, Crops Branch (202) 219-0840.

Table 18.--Food Grains

| | | - Marketii | ng year 1/ | | | | 1990 | | | 1991 |
|--|---------------------|---------------------|-----------------------|------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|------------------------|
| | 1986/87: | 1987/B8 | 1986/89 | 1989/90 | Jan | Sept | Oct | Nov | Dec | Jan |
| Wholecale prices Wheat, No. 1 HRW, Kansas City (\$/bu.) 2/ | 2.72 | 2.96 | 4.17 | 4.22 | 4.30 | 2.83 | 2.81 | °2. 78 | 2.78 | 2.71 |
| Wheat, DNS, Minneapolia (\$/bu.) 3/ Rice, S.W. La. (\$/cwl) 4/ | 3.07 10.25 | 3.15 19.25 | 4.3 6 14.85 | 4.16 16.65 | 4.21 15.40 | 2 84 13 95 | 2.65 13.76 | -2.80 14.50 | 2.82 14.50 | 2.83 14.10 |
| Wheat Exports (mll, bu.) Mill grind (mll-bu.) Wheat flour production (mll, cwt) | 1.004 756 335 | 1,592 753 336 | 1,424 778 348 | 1,233 759 347 | 83 63 28 | 109 87 30 | 88 76 33 | 61 73 33 | 61 64 29 | |
| Exporte (mll. ewt, rough equiv.) | 84.2 | 72.2 | 85.9 | 76.8 | 7.1 | 6.5 | 9.0 | 8.4 | 9.4 | _ |
| | | Marketing yes | ar 1/ | | 1989 | | | | 1990 | |
| 147 | 1967/88 | 1988/89 | 1989/90 | Mar-May | June-Aug | Sept-Nov | Dec-Feb | Mar-May | June-Aug | Sept-Nov |
| Wheat Stocks, beginning (mil. bu.) | 1,821 | 1.261 | 702 | 1.227.7 | 701.6 | 1.917.2 | 1,423.7 | 943.1 | 536.5 | 2.409.5 |
| Domestic use Food (mil. bu.) Seed, !sed & residual (mil. bu.) 5/ Exports (mil. bu.) | 721 365 1,598 | 715 260 1,419 | 731 261 1,233 | 165.0 ~2.8 368.0 | 183 1 273.9 369.9 | 183.1 -12.8 328.6 | 180.5 44.9 259.7 | 184.3 -44.9 274.8 | 197.4 408.0 268.1 | 211.9 23.4 278.0 |

1/ Beginning June 1 for wheat & August 1 for rice. 2/ Ordinary protein. 3/ 14% protein. 4/ Long grain, milled basis. 5/ Residual includes feed use, --- = not available.
Information contacts: Ed Allen & Janet Livezey (202) 219–0840.

Table 19.—Cotton

| | | Market | ing year 1/ | | | | 1990 | | | 1991 |
|---|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------------------|---------------------|---------------------|---------------------|----------------------|--------------|
| | 1986/87 | 1987/88 | 1968/89 | 1989/90 | Jan | Sept | Oct | Nov | Dec | Jan |
| U.S. price, SLM, 1-1/16 in. (cts./ib.) 2/ | 63.2 | 63.1 | 57.7 | 8.96 | 82.2 | 71.0 | 70.5 | 69.5 | 89.9 | 70.5 |
| Northern Europe prices index (cts./ib.) 3/ U.S. M 1-3/32 in. (cts./ib.) 4/ | 62.0 61.8 | 72.7 76.3 | 00.4 00.2 | 82.3 83.8 | 74.9 74.3 | 81.4 81.7 | 81.5 82.4 | 82.7 83 2 | 83.6 84.0 | 83.4 85.5 |
| U.S. mill consumpt. (1,000 bales) Exports (1,000 bales) Stocks, beginning (1,000 bales) | 7,452 6.684 9.348 | 7,617 5,582 5,026 | 7,782 5,148 5,771 | 8.759 7,894 7,092 | 7 54 875 12, 5 14 | 892 412 2.224 | 802 377 3,207 | 687 718 7.498 | 490 789 10,880 | 11.656 |

1/ Beginning August 1, 2/ Average spot market, 3/ Liverpool Cotlook (A) index; average of five lowest priced of 11 selected growths. 4/ Memphis territory growths. — = not available.

Information contact: Bob Skinner (202) 219-0840.

Table 20.—Feed Grains

| | | Marke | iting year 1/ | | | | 1990 | | | 1991 |
|---|---------|---------|---------------|---------|----------|---------|---------|----------|----------|---------|
| | 1986/87 | 1987/88 | 1988/89 | 1989/90 | Jan | Sept | Oct | Nov | Dec | Jan |
| Wholesale prices | | | | | | | | | | |
| Corn, no. 2 yellow, 30 day, Chicago (\$/bu.) | 1.64 | 2.14 | 2.68 | 2.53 | 2.39 | 2.33 | 2.24 | 2.33 | 2.33 | 2.39 |
| Sorghum, no. 2 yellow, | 1.07 | 2.14 | 2.00 | 2.00 | 2.00 | 2.00 | 2.24 | 2.93 | 2.33 | 2.30 |
| Kansas City (\$/cwt) | 2.73 | 3.40 | 4.16 | 4.18 | 4.00 | 3.80 | 3.79 | 3.85 | 3.97 | 4.12 |
| Barley, feed, Duluth (\$/bu.) 2/ | 1.44 | 1.78 | 2 31 | 2.20 | 2,28 | 2.01 | 2.11 | 2,16 | 2.07 | 2.09 |
| Barley, maiting | 1 | 1.70 | 231 | 2.20 | 2.20 | 2.01 | 2.11 | 2.10 | 2.07 | 2.09 |
| Minneapolle (\$/bu.) Exporte 3/ | 1.89 | 2.04 | 4.11 | 3.20 | 3.20 | 2.32 | 2.30 | 2.40 | 2.31 | 2.33 |
| Corn (mil. bu.) | 1,504 | 1.723 | 2.028 | 2,367 | 239 | 106 | 108 | 168 | 142 | 144 |
| Feed grains (mil. metric tons) 4/ | 46.3 | 52.3 | 61.3 | 69.9 | 7.0 | 3.2 | 3.5 | 5.0 | 4.3 | 4.2 |
| | | Marketi | ng year 1/ | | 1989 | | | 1990 | | 1991 |
| | 1986/67 | 1967/88 | 1988/89 | 1989/90 | Sept-Nov | Dec-Feb | Mer-May | June-Aug | Sept-Nov | Dec-Feb |
| Corn Stocke, beginning (mil. bu.) | 4.040 | 4,882 | 4.259 | 1.930 | 1,930 | 7.082 | 4,612 | 0.040 | 1 246 | 6,940 |
| Domestic use | 4.040 | 41002 | 4.200 | 1,000 | 1,000 | 7.002 | 4,012 | 2.843 | 1,345 | 0,040 |
| Feed (mil. bu.) | 4,714 | 4.805 | 3.979 | 4,450 | 1,494 | 1,291 | 1.014 | 858 | 1,648 | _ |
| Food, seed, Irid. (mil. bu.) | 1,192 | 1,229 | 1.245 | 1.271 | 298 | 297 | 338 | 338 | 305 | _ |
| Exporte (mil. bu.) | 1,504 | 1,723 | 2,036 | 2,367 | 582 | 682 | 601 | 602 | 385 | · · |
| Total use (mil. bu.) | 7,410 | 7,757 | 7.200 | 8,114 | 2,374 | 2.270 | 1,970 | 1,499 | 2.338 | |

^{1/} September 1 for corn & earghum; June 1 for cate & barley. 2/ Beginning March 1987 reporting point changed from Minneapolis to Duluth. 3/ includes products. 4/ Aggregated data for corn, earghum, cate, & barley. — = not available.

Information contact: James Cole (202) 219-0840.

Table 21.—Fats & Oils _

| | Marke | ting year " | | 1989 | | | 1990 | | |
|----------|--|---|--|---|--|---|---|---|---|
| 1985/86 | 1986/87 | 1987/88 | 1988/89 | Dec | Aug | Sept | Oct | Nov | Dec |
| 7.00 | | | | | | | | | |
| | 1.176 6 | | | | | | | | 5. 78 102.7 |
| 740.7 | 756.9 | 801.6 | 530.6 | 86.1 | 28.3 | 27.9 | 29.8 | 62.8 | 55.8 |
| 316.0 | 536.4 | 436.4 | 302.5 | 108.6 | 48.9 | 45.2 | 34.5 | 130.1 | 130.7 |
| | | | | | | | | | |
| | | | | | | | | | 21.6 |
| 10.045.9 | | | 10.455.6 | | | | | | 1,138 0 982.1 |
| 1,257.3 | 1,184.5 | 1.873.2 | 1.658.2 | 173.4 | 62.5 | 298.9 | 85.4 | 107.2 | 12.1 |
| 632.6 | 945.5 | 1,725.0 | 2.092.2 | 1.532.4 | 1,433.2 | 1.380.2 | 1,324.6 | 1,215.9 | 1.320.1 |
| | | | | | | | | | |
| | | | | 179.40 | 172.40 | 176.90 | 172.50 | 163.00 | 164.80 |
| | | | | | | | | | 2.431.5 1.870.3 |
| 6.009.3 | 7.343.0 | 6,671.0 | 5.130.8 | 565.1 | 316.9 | 245.3 | 289.2 | 500.7 | 418:7 |
| 388.9 | 211.7 | 240.2 | 153.5 | 295.6 | 267.7 | 232.0 | 318.3 | 290.9 | 313.6 |
| 51.2 | 40.3 | 40.3 | 52.3 | 52.3 | 82 S | A1 0 | 81.7 | 81.6 | 62 Ý |
| | 18.02 1.052.8 740.7 318.0 18.02 11.817.3 10.045.9 1.257.3 632.5 154.88 24.951.3 19.117.2 6.009.3 | 1985/86 1986/87 5.20 5.03 1.052.8 1.178.8 740.7 758.9 318.0 536.4 18.02 15.36.4 18.02 15.36.1 10.045.9 10.820.2 1.257.3 1.184.5 632.5 946.6 154.88 162.61 24.951.3 27,758.8 19,117.2 20,387.4 6.009.3 7.343.0 388.9 211.7 | 5.20 5.03 8.67 1.052.8 1,178.6 1,174.5 740.7 786.9 801.8 316.0 536.4 436.4 18.02 15.36 22.67 11,817.3 12.783.1 12.974.5 10.045.9 10.820.2 10.734.1 1.257.3 1.184.5 1.873.2 632.5 948.6 1.725.0 154.88 162.61 221.90 24.951.3 27.758.8 26.060.2 19,117.2 20.387.4 21.77 6.009.3 7.343.0 6.871.0 388.9 211.7 240.2 | 1985/86 1986/87 1987/88 1988/89 5.20 5.03 6.67 7.41 1.052.8 1.178.8 1.174.5 1.057.7 740.7 756.9 801.6 530.8 316.0 536.4 436.4 302.5 18.02 15.36 22.67 21.09 11.517.3 12.783.1 12.974.5 11,737.0 10.045.9 10.820.2 10.734.1 10.455.8 1.257.3 1.184.5 1.873.2 1.658.2 632.5 948.6 1.725.0 2.092.2 154.88 162.61 221.90 233.46 24.951.3 27.758.8 26.000.2 24.942.7 19.117.2 20.387.4 21.275.9 19.762.8 6.009.3 7.343.0 6.871.0 5.130.8 388.9 211.7 240.2 153.5 | 1985/86 1986/87 1987/88 1988/89 Dec 5.20 5.03 8.67 7.41 5.74 1.052.8 1,178.8 1,174.5 1.057.7 105.4 740.7 786.9 801.6 530.6 66.1 318.0 536.4 436.4 302.5 108.6 18.02 15.36 22.67 21.09 19.11 11.817.3 12.783.1 12.974.5 11,737.0 1.511.2 10.045.9 10.820.2 10.734.1 10.455.6 975.2 1.257.3 1.184.5 1.873.2 1.658.2 173.4 632.6 948.6 1.725.0 2.092.2 1.532.4 154.88 162.81 221.90 233.46 179.40 24.951.3 27.758.8 26.000.2 24.942.7 2.519.6 4.909.3 7.343.0 6.871.0 5.130.8 565.1 388.9 211.7 240.2 153.5 295.8 | 1985/86 1986/87 1987/88 1988/89 Dec Aug 5.20 5.03 8.67 7.41 5.74 8.06 1.052.8 1,178.8 1,174.5 1,057.7 105.4 92.8 740.7 756.9 801.6 530.6 80.1 28.3 316.0 536.4 436.4 302.5 108.6 46.9 18.02 15.36 22.67 21.09 19.11 25.0 11.617.3 12.783.1 12.974.5 11,737.0 1.811.2 1.059.2 10.045.9 10.620.2 10.734.1 10.455.6 975.2 1.029.8 1.257.3 1.184.5 1.873.2 1.658.2 173.4 62.5 632.6 946.6 1.725.0 2.092.2 1.532.4 1,433.2 154.88 162.61 221.90 233.46 179.40 172.40 24.951.3 27,758.8 28.000.2 24.942.7 2519.6 2.237.1 19.117.2 20.387.4 21.275.9 | 1985/86 1986/87 1987/88 1988/89 Dec Aug Sept 5.20 5.03 8.67 7.41 5.74 8.06 8.19 1.052.8 1,178.8 1,174.5 1,057.7 105.4 92.6 92.1 740.7 756.9 801.6 530.6 86.1 28.3 27.9 316.0 536.4 436.4 302.5 108.6 40.9 45.2 18.92 15.36 22.67 21.09 19.11 25.0 24.5 11.817.3 12.783.1 12.974.5 11,737.0 1.811.2 1,059.2 1,038.1 10.45.9 10.620.2 10.734.1 10.455.6 975.2 1,029.8 795.1 1.257.3 1.184.5 1.873.2 1.658.2 173.4 62.5 298.9 632.5 946.8 1.725.0 2.092.2 1.532.4 1,433.2 1,380.2 154.88 162.61 221.90 233.46 179.40 172.40 176.90 | 1985/86 1986/87 1987/88 1988/89 Dec Aug Sept Oct 5.20 5.03 6.67 7.41 5.74 6.06 6.19 8.09 1.052.8 1,178.8 1,174.5 1.057.7 105.4 92.6 92.1 106.1 740.7 756.9 801.6 530.6 86.1 28.3 27.9 29.8 316.0 536.4 436.4 302.5 108.6 46.9 45.2 34.5 18.02 15.36 22.67 21.09 19.11 25.0 24.5 22.6 11.617.3 12.783.1 12.974.5 11,737.0 1.611.2 1,059.2 1,038.1 1,188.1 10.045.9 10.820.2 10.734.1 10.455.6 975.2 1,029.8 795.1 1,211.3 1.257.3 1.184.5 1.873.2 1.658.2 173.4 82.5 298.9 85.4 632.5 948.6 1.725.0 2.092.2 1.532.4 1,433.2 1.380.2 1,324.6 154.88 162.81 221.90 233.46 179.40 172.40 176.90 172.50 24.951.3 27.758.8 26.060.2 24.942.7 2.519.6 2.237.1 2,187.3 2,508.5 19.117.2 20.387.4 21.275.9 19.792.6 1,820.6 1,955.9 1.855.8 2,246.9 6.009.3 7.343.0 6.871.0 5.190.8 565.1 316.9 245.3 289.2 388.9 211.7 240.2 163.5 295.6 267.7 232.0 318.3 | 1985/86 1986/87 1987/88 1988/89 Dec Aug Sept Oct Nov 5.20 5.03 6.67 7.41 5.74 6.06 8.19 6.09 5.72 1.052.8 1.178.8 1.174.5 1.057.7 105.4 92.8 92.1 106.1 106.0 740.7 756.9 801.8 530.6 86.1 28.3 27.9 29.8 62.8 316.0 536.4 436.4 302.5 108.6 46.9 45.2 34.5 130.1 18.02 15.36 22.67 21.09 19.11 25.0 24.5 22.6 21.1 11.617.3 12.783.1 12.974.5 11.737.0 1.611.2 1.059.2 1.038.1 1.188.1 1.168.0 10.045.9 10.620.2 10.734.1 10.455.6 975.2 1.029.8 795.1 1.211.3 956.6 1.257.3 1.184.5 1.873.2 1.658.2 173.4 82.5 298.9 85.4 107.2 632.5 946.6 1.725.0 2.092.2 1.532.4 1.433.2 1.380.2 1.324.6 1.215.9 154.88 182.81 221.90 233.46 179.40 172.40 176.90 172.50 163.00 24.951.3 27.758.8 26.080.2 24.942.7 2.519.6 2.237.1 2.187.3 2.508.5 2.513.2 19.117.2 20.387.4 21.275.9 19.792.6 1.820.6 1.955.9 1.855.8 2.246.9 1.989.9 6.009.3 7.343.0 6.671.0 5.130.8 565.1 318.9 245.3 289.2 500.7 388.9 211.7 240.2 163.5 295.6 267.7 232.0 318.3 290.9 |

^{*} Beginning September 1 for ecybeans; October 1 for soymeal & oil; calendar year for margarins.

Note: Census data on which this table is based are now being reported quarterly. Consequently, the next revision of this table will appear in May for the Jan-Mar quarter.

information contacts: Roger Hoskin (202) 219-0840. Tom Bickerton (202) 219-0824:

Table 22.—Farm Programs, Price Supports, Participation & Payment Rates

| | | | | | Payment rates | | | | |
|---|---|---|---|--|---------------------------|--|--|--|--|
| | Target price | Loan | Findley loan rate | Deficiency | Paid iand diversion | PiK | Base acres 1/ | Program 2/ | Particl- pation rate 3/ |
| | | | \$/bu. | | | Percent | MII. | | Percent of base |
| Wheat 1984/85 1985/85 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 | 4.38 4.38 4.38 4.38 4.23 4.10 4.00 | 3.30 3.30 3.00 2.85 2.76 2.58 2.44 | 2.40 2.28 2.21 2.00 1.95 | 1.00 1.08 1.98 1.81 0.69 7/ 0.32 1.00 | 2.70 2.70 2.00 | 1.10 | 94.0 94.0 91.6 87.6 84.8 82.3 80.5 | 20/10/10-20 20/10/0 22.5/2.5/5-10 27.5/0/0 27.5/0/0 10/0/0 5/0/0 | 80/80/20 73 85/85/21 88 96 78 60 |
| Rice | | | \$/cwt | | | | | | |
| 1984/85 1985/86 1985/87 5/ 1987/88 1988/89 1989/90 1990/91 | 11.90 11.90 11.90 11.66 11.15 10.80 10.71 | 8.00 8.00 7.20 6.84 6.63 6.50 6.50 | 6/ 3.16 6/ 3.82 6/ 5.77 6/ 6.30 8/ 6.50 | 3.76 3.90 4.70 4.82 4.31 3.56 3.71 | 3.50 | | 4.1 4.2 4.2 4.1 4.1 4.1 | 25/0/0 20/15/0 35/0/0 35/0/0 25/0/0 25/0/0 20/0/0 | 85 90 94 96 94 95 |
| Corn | | | \$/bu. | | | | | | |
| 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 | 3.03 3.03 3.03 3.03 2.93 2.84 2.75 | 2.55 2.55 2.40 2.28 2.21 2.08 1 98 | 1.92 1.82 1.77 1.85 1.67 | 0.43 0.48 1.11 1 09 7/ 0.36 7/ 0.58 0.15 | 2.00 | | 80.6 84.2 81.7 81.5 82.9 82.7 | 10/0/0 10/0/0 17,5/2,5/0 20/15/0 20/10/0: 0/92 10/0/0: 0/92 10/0/0: 0/92 | 54 89 86 90 87 60 76 |
| Sorphum | | | \$/bu. | | | | | | _ |
| Sorghum 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 | 2.88 2.88 2.88 2.88 2.78 2.70 2.61 | 2.42 2.42 2.28 2.17 2.10 1.98 1188 | 1.82 1.74 1.65 1.57 | 0.46 0.48 1.08 0.82 0.48 7/ 0.66 0.21 | 0.85 1.90 1.85 | | 18.4 19.3 19.0 17.4 16.8 16.2 15.4 | 8/ (same) | 42 55 75 84 82 71 |
| Barley | | | \$/bu. | | | | | | |
| 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1988/90 1990/91 | 2.60 2.60 2.60 2.60 2.51 2.43 2.36 | 2.08 2.08 1.95 1.86 1.80 1.68 1.60 | 1.50 1.49 1.44 1.34 | 0.26 0.52 0.99 0.52 1.04 7/ 0.23 0.26 | 0.57 1.80 1.40 | Alleriana Alleri | 11.6 13.3 12.4 12.5 12.5 12.4 11.9 | 8/ (eame) | 44 57 72 84 79 69 |
| Oate | | | \$/bu. | | | | | | |
| 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 | 1.60 1.60 1.60 1.60 1.55 1.60 1.45 | 1.31 1.31 1.23 1.17 1.13 1.06 1.01 | 0.99 0.94 0.90 0.85 0.81 | 0.00 0.29 0.39 0.20 0.30 0.00 | 0.36 | | 9.8 9.4 9.2 8.4 7.9 7.6 7.5 | 5/0/0: 0/92 5/0/0: 0/92 5/0/0: 0/92 5/0/0: 0/92 | 14 14 37 45 30 23 10 |
| Soybeane 9/ | | | \$/bu. | | | | | | |
| 1984/85 1985/86 1986/87 5/ 1986/87 1988/89 1988/89 1989/90 | | 5.02 6.02 4.77 4.77 4.77 4.53 4.50 | | | | | | 10/ 10/25 10/ 0/25 | |
| Upland cotton 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91 | 81.0 81.0 81.0 79.4 75.9 73.4 72.9 | 55.00 57.30 55.00 62.25 51.80 50.00 50.27 | Cte.//b. | 18.60 23.70 26.00 17.3 19.4 13.1 6.3 | 30.00 | | 15.8 15.9 15.5 14.5 14.6 14.6 | 25/0/0 20/10/0 25/0/0 25/0/0 12.5/0/0 25/0/0 12.5/0/0 | 70 82/0/0 93 93 89 89 |

1/ Includes planted area plus acres considered planted (ARP, PLD, 0-92 etc). Net of CRP, 2/ Percentage of base acres that farmers participating in Acreage Reduction Programs/Paid Land Diversion/PIK were required to devote to conserving uses to receive program benefits. 3/ Percentage of base acres enrolled in Acreage Reduction Programs/Paid Land Diversion/PIK. 4/ Percent of program yield, except 1986/67 wheat, which is dollars per bushel. 1984 PIK rates apply only to the 10-20 portion. 5/ Rates for payments received in cash were reduced by 4.3 percent in 1986/87 due to Gramm-Rudman-Hollings. 6/ Annual average world market price. 7/ Guaranteed to farmers signed up for 0/92. 8/ The sorgium, oats, & barley programs were the same as for corn in each year except 1988-90, when the cate ARP was lower than for the other feed grains. 9/ There are no target prices, acreage programs. 0/ payment rates for so/beans. 10/ Soybeans of the loss of base. 11/ Loan repayment rate. 12/ Loans may be repaid at the lower of the loss rate or world market prices. "On September 13, the Secretary announced that participating farmers have the option of planting up to 105 percent of their wheat base to boost 1990 supplies. For every ecre planted in excess of 95 percent of base, the acreage used to compute deficiency payments will be cut by 1 acra.

— = not available.

Information contact: James Cole (202) 219-0840.

Table 23.—Fruit

| | 1982 | 1983 | 1984 | 1965 | 1986 | 1987 | 1988 | 1989 | 1990 P |
|--|------------------|------------------|------------------|----------------|-------------------------|------------------|------------------|------------------|---------------------------|
| Citrus 1/ Production (1,000 ton) Per capita consumpt. (lbs.) 2/ | 12,139 24.7 | 13.682 29.4 | 10,832 | 10.525 22.5 | 11,058 26,0 | 11,993 26,7 | 12,761 27,1 | 13,186 | 10.817 |
| Noncitrue 3/ Production (1,000 tone) Per capita consumpt, (lbs.) 2/ | 14,658 62.7 | 14.168 63.6 | 14,301 67,5 | 14,191 66,5 | 13.874 69.5 | 18.011 75.1 | 15,303 71,9 | 15.763 72.2 | 14,629 |
| r at capital consumpt, fively a | 04.7 | | | | 990 | 73.1 | 7 | 7 8.16 | 1991 |
| E 4 | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan |
| F.o.b. shipping point prices Apples (\$/carton) 4/ Pears (\$/box) 5/ | 11.00 14.00 | 11.28 15.88 | 13.86 | 19.88 | 11,95 | 12.16 | 13.00 12.58 | 13.08 13.00 | 14.08 14.00 |
| Grower prices Dranges (\$/box) 6/ Grapetruit (\$/box) 6/ | 7.84 7.82 | 7.15 8.74 | 6.02 6.35 | 5.07 6.44 | 5.31 7.22 | 4.48 6.61 | 6.31 6.53 | 6.18 6.63 | 8.82 5.86 |
| Stocks, ending Fresh apples (mll. lbs.) Fresh pears (mll. lbs.) | 589.8 28.9 | 283.9 2.3 | 118.9° 33.8 | 8.6 199.8 | 3,005 578.0 | 4,590.0 449.6 | 4.003.7 322.0 | 3.378.3 266.2 | 2. 694 .8 191.1 |
| Frozen fruite (mil. lbs.) Frozen Grange julce (mil. lbs.) | 583.7 1,586.2 | 653.2 1,074.8 | 790.6 1.006.1 | 859.5 808.4 | 864.5 79 7. 1 | 912.7 802.0 | 864.6 871.3 | 836.0 1,031.0 | 749.2 1.177.3 |

^{1/ 1990} indicated 1989/90 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red deficious, Washington, extra lancy, carton try pack, 126's. 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 6/ U.S. equivalent on-tree returns. Р = preliminary. — = not available.

Information contact: Wynnice Napper (202) 219-0884.

Table 24.—Vegetables

| | Calendar year | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|-----------------------|-----------------------|--------------------------------|---------|--|--|
| Production | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1967 | 1988 | 1989 | 1990 P | | |
| Total vegetables (1,000 cwt) | 392,343 | 430,795 | 403.509 | 450.334 | 453.030 203,549 | 448.029 | 478.381 | 468,779 | 542.437 | 657.088 | | |
| Fresh (1,000 owt) 1/ 3/ Processed (tons) 2/ 3/ | 183,458 10.444.330 | 193,451 11.867,170 | 185.782 10.886.350 | 201,817 12,725,880 | 12.474.040 | 203.165 | 220.539 12.892.100 | 228.397 12.019.110 | 239,281 15,1 57,79 0 | 234.506 | | |
| Mushrooms (1,000 lbs.) Potatoes (1,000 cwt) | 517,148 340,623 | 490.828 355,131 | 561.531 333.726 | 595,881 362,039 | 887.956 408.809 | 614,393 381,743 | 631,819 389,320 | 867,759 356,438 | 715.010 370.444 | 393.867 | | |
| Sweetpotatoes (1,000 cwt) Dry edible beans [1,000 cwt) | 12,799 32,751 | 14,833 25,663 | 12,083 | 12,902 | 14.573 22,175 | 12.368 22.886 | 11.611 | 10.945 19.253 | 11.358 23,729 | 13.020 | | |
| Dry soloig beaut [1,000 cm) | 32.701 | 20.003 | 10.020 | 21.070 | 22,170 | 22.886 | 20.031 | 14.203 | 2.3,72.0 | 32,428 | | |
| | | | | | 1990 | | | | | 1991 | | |
| Oh I | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Jen | | |
| Shipmente Fresh (1,000 cwt) 4/ | 22,475 | 35,292 | 30,291 | 21,826 | 22.032 | 14,898 | 20,451 | 17,823 | 17,112 | 23.352 | | |
| Potatoes (1,000 cwt) SweetPotatoes (1,000 cwt) | 12.809 | 18,082 | 10,136 1 67 | \$,256 109 | 10.029 | a.959 302 | 11,947 582 | 11,405 929 | 10.434 545 | 14.681 | | |

^{1/} includes fresh production of asparagus, production of caparagus, production of standard production of standard

Information contacts. Gary Lucier or Cathy Greene (202) 219-0884.

Table 25.—Other Commodities

| -Sept Oct-Oec |
|---------------|
| 652 3,424 |
| 2,308 2,307 |
| 1,210 2.642 |
| 21012 |
| |
| 79,10 76.85 |
| |
| 530 616 |
| |
| June July |
| |
| |
| |
| |
| 45.9 39.8 |
| 221,6 164.4 |
| 21,0 104.4 |
| |

^{1/1,000} short tone, raw value. Quarterly data shown at end of each quarter. 2/ Net imports of green & processed coffee, 3/ Crop year July-June for flue-cured, Oct.-Sept. for burley. 4/ Taxable removals. — = not available.

Information contacts: sugar, Peter Buzzaneli (202) 219-0886, coffee, Fred Grey (202) 219-0889, tobacco, Verner Grise (202) 219-0890.

World Agriculture

Table 26.—World Supply & Utilization of Major Crops, Livestock, & Products_

| | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 P | 1990/91 F |
|--|----------------|-----------------|----------------|--------------------------|----------------|---------------------------|----------------------|
| | | | | Million unite | | | |
| Wheat | | | | | | | |
| Area (hectares) | 231.2 | 229.6 | 228.2 | 220.0 | 218.0 | 225.5 | 230.8 |
| Production (metric tone) | 511.9 | 500.1 | 530.7 | 502.3 105.0 | 500.4 | 536.8 96.6 | 589.0 93.4 |
| Exports (metric tons) 1/ Consumption (metric tons) 2/ | 107.0 493.0 | 85.0 496.2 | 90.7 522.5 | 530.2 | 96.9 531.9 | 534.5 | 562.9 |
| Ending stocks (metric tons) 3/ | 164.4 | 168.2 | 178.4 | 148.5 | 117.0 | 119.3 | 145.4 |
| Coarse grains | | | | | | | |
| Area (hectares) | 334.6 | 341.3 | 336.5 | 324.3 | 325.9 | .321.₽ | 321.8 |
| Production (metric tone) | 815.8 | 843.1 | 831.9 | 793.0 | 731.2 | 803.5 | 825.7 |
| Exporte (metric tone) 1/ | 100.4 | 83.2 | 83.3 | 83 2 | 94.5 | 100.1 | 85.5 |
| Consumption (metric tons) 2/ Ending stocks (metric tons) 3/ | 782.6 143.9 | 778.8 208.2 | 806.0 234.0 | 814.9 213.0 | 796.4 147.8 | 826.8 124.5 | 827.7 122.5 |
| | 140.0 | 200.2 | 20-710 | 210.0 | 14710 | 12.40 | |
| Rice, milted Area (hectares) | 144.2 | 144.9 | 145.3 | 141.8 | 145.5 | 148.7 | 147.0 |
| Production (metric tons) | 318.9 | 318.9 | 318.7 | 314.2 | 330.₽ | 344.8 | 349.7 |
| Exports (metric tons) 4/ | 11.3 | 12.6 | 12.9 | 11.9 | 15.1 | 12.3 | 12 3 |
| Consumption (metric tons) 2/ Ending stocks (metric tons) 3/ | 310.2 56.0 | 319.4 55.4 | 322 7 61.4 | 320.0 45.6 | 328.6 47.9 | 338.1 54.6 | 348.7 57.8 |
| | 00.0 | 90. 4 | 01.4 | 10.0 | 47.10 | 54.0 | 0 |
| Total grains Area (hectares) | 710.0 | 715.8 | 710.0 | 685.9 | 689.4 | 694.1 | 699.6 |
| Production (metric tons) | 1,646.6 | 1.662.1 | 1,681.3 | 1,610.4 | 1.562.5 | 1,685.1 | 1.764.4 |
| Exports (metric tons) 1/ | 218.7 | 180.8 | 186.9 | 200.1 | 206.5 | 209.0 | 191.2 |
| Consumption (metric tons) 2/ | 1,585.8 | 1,594.4 | 1,651.2 | 1,665.1 | 1,656.9 | 1,699.4 | 1,737.3 |
| Ending stocks (metric tons) 3/ | 364.3 | 431.8 | 461.8 | 407.1 | 312.7 | 298.4 | 325.5 |
| Ollegeds | 450.5 | 455.4 | 404.4 | | 400.4 | 470.0 | 477.5 |
| Crush (metric tons) | 150.7 | 155.1 | 181.4 | 167.7 | 166.1 | 173.2 | 177.5 |
| Production (metric tone) Exports (metric tone) | 191.1 33.1 | 198.2° 34.5. | 194.4 37.7 | 209.5 39.5 | 203.7 32.0 | 213. 9 35.7 | 217.3 33.6 |
| Ending stocks (metric tons) | 21.1 | 26.8 | 23.3 | 24.0 | 22.3 | 23.2 | 23.9 |
| Meals | | | | | | | |
| Production (metric tone) | 101.8 | 105.0 | 110.5 | 115.1 | 112.1 | 117.7 | 119.8 |
| Exports (metric tons) | 32.3 | 34.4 | 36 7 | 38.2 | 38 2 | 38.3 | 39.0 |
| Oile | | | | | | | |
| Production (metric tone) | 48.2 | 49.4 | 50.3 | 53.2 | 53.8 | 57.4 | 58.7 |
| Exports (metric tons) | 15.6 | 16.4 | 16.9 | 17.7 | 18.3 | 19.7 | 19.1 |
| Cotton | 04.0 | 24.7 | 20.8 | 01.4 | 22.0 | 20.0 | 02.0 |
| Area (hectares) Production (bales) | 34.0 89.0 | 31.7 80.8 | 29.8 70.9 | 31.1 81.2 | 33.8 84.7 | 32.0 79.9 | 33.8 87.6 |
| Exports (bales) | 20.3 | 20.3 | 28.0 | 23.3 | 26.1 | 24.0 | 24.3 |
| Consumption (bales) | 70.2 | 77.3 | 82.8 | 84.5 | 85.6 | 87.3 | 88.4 |
| Ending stocks (bales) | 43.4 | 47.4 | 35.0 | 31.8 | 30.2 | 23.7 | 24.0 |
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 P | 1991 F |
| Red meat | | | | | | | |
| Production (metric tone) | 103.6 | 108.5 | 109.8 | 113.4 | 115.2 | 114.4 | 116.1 |
| Consumption (metric tons) | 101.5 | 105.4 | 107.9 | 111.7 | 113.8 | 113.8 | 115.0 |
| Exports (metric tons) 1/ | 6.3 | 8.7 | 8.8 | 8.9 | 7.2 | 8.5 | 6.8 |
| Production (matrix tons) | 00.0 | 20.2 | 21.2 | 20.0 | 24.4 | 25.7 | 27.0 |
| Production (metric tons) Consumption (metric tons) | 26.2 | 29.3 | 31.3 30.8 | 32. 9 32.5 | 34,1 33.8 | 35.7 35.2 | 37.2 38.8 |
| Exporte (metric tone) 1/ | 25.8 1.2 | 28.9 1.2 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 |
| Dairy | | | | | | | |
| Milk production (metric tons) | 413.4 | 425.9 | 425.9 | 429.1 | 434.8 | 441.0 | 443.4 |
| | | | | | | | |

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1985 data correspond with 1984/85, etc. 5/ Poultry excludes the Peoples Republic of China before 1988. Pie preliminary. First forecast.

Information contacts: Crops, Carol Whitton (202) 219-0313; red meat & poultry, Linda Bailey (202) 219-1285; dairy, Sara Short (202) 219-0770.

U.S. Agricultural Trade

Table 27.—Prices of Principal U.S. Agricultural Trade Products

| | Annual | | | | 1990 | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | 1988 | 1989 | 1990 | Jan | Aug | Sept | Oct | Nov | Dec | Jan | |
| Export commodities | | | | | | | | | 0.45 | 0.05 | |
| Wheat, f.o.b. vessel, Gulf ports (\$/bu.) | 3.97 | 4.65 | 3.72 | 4.59 | 3.21 | 3.14 | 3.16 | 3.09 | 3.10 | 3.05 | |
| Corn, f.o.b. vessel, Gulf ports (\$/bu.) Grain eorghum, f.o.b. vessel. | 2.73 | 2.85 | 2.79 | 2.70 | 2.80 | 2.80 | 2.55 | 2.56 | 2.63 | 2.71 | |
| Gulf ports (\$/bu.) | 2 52 | 2.70 | 2.65 | 2.60 | 2.67 | 2.52 | 2.50 | 2.51 | 2.60 | 2.68 | |
| Contracts for have and Cultiments (Church | 7.81 | 7.06 | 8.24 | 6.07 | 8.42 | 6.45 | 6.33 | 6.09 | 6.13 | 6.03 | |
| Soybeans, f.o.b. vessel, Gulf ports (\$/bu.) | 23.52 | 20.21 | 22.75 | 19.55 | 24.78 | 23.89 | 22.09 | 20.75 | 21.20 | 21.42 | |
| Soybean oll, Decatur (cts./lb.) | | | | | | 175.79 | 172.49 | 163.81 | 164.79 | 158.38 | |
| Soybean meal, Decator (\$/ton) | 234.75 | 216.59 | 169.37 | 171.66 | 171.09 | 1/5./9 | 172.40 | 103.01 | 104.79 | 100.30 | |
| Cotton, 8-market avg. spot (cts./ib.) | 67.25 | 63.78 | 71.25 | 62.21 | 76,27 | 71.01 | 70.54 | 89,48 | 89.92 | 70.51 | |
| Tobacco, avg. price at auction (cta./lb.) | 153.61 | 151.58 | 164.61 | 160.77 | 159.51 | 170,20 | 168.82 | 189.86 | 170.09 | 171.81 | |
| | 19.80 | 15.66 | 15.52 | 15.50 | 15.81 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | |
| Rice, f.o.b. mill, Houston (\$/cwt) | | | | | | 12.00 | 13.25 | 14.09 | 14,25 | 14.43 | |
| Inedible tallow, Chicago (cts./lb.) | 16.64 | 14.71 | 13.54 | 14.87 | 10.12 | 12.00 | 13.20 | 14.00 | 14,25 | 14.40 | |
| Import commodities | | | | | | | | | | | |
| Coffee, N.Y. spot (\$/lb.) | 1.21 | 1.04 | 0.81 | 0.72 | 0.81 | 0.87 | 0.85 | 0.80 | 0.82 | 0.82 | |
| Rubber, N.Y. spot (cts./lb.) | 59.20 | 50.65 | 46.28 | 44.72 | 47.48 | 48.43 | 48.50 | 48.26 | 47.03 | 47.47 | |
| MUDDEL, IT. I. SPOT (A19/10-) | 0.89 | 0.55 | 0.55 | 0.44 | 0.56 | 0.59 | 0.57 | 0.58 | 0.58 | 0.55 | |
| Cocoa beans, N.Y. (\$/lb.) | 0.00 | 0.50 | 0.00 | 0.77 | 0.50 | 0.00 | 0.01 | 4,00 | 0100 | | |

Information contact: Mary Teymourian (202) 219-0824.

Table 28.—Indexes of Real Trade-Weighted Dollar Exchange Rates¹

| | | 1990 | | | | | | | | | | |
|--|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|------------------|------------------------------|--------------|--------------|--|
| | Apr | May | June P | July P | Aug P | Sept P | Oct P | Nov P | Dec P | Jan P | Feb P | |
| | | | | 19 | 85 = 100 | | | | | | | |
| Total U.S. trade 2/ | 67.9 | 86.8 | 57 .3 | 65.5 | 63.4 | 63.1 | 61.2 | 60.5 | 61.6 | 62.0 | 61.5 | |
| Agricultural trade U.S. markets U.S. competitors | 79.4 79.2 | 78.6 77.8 | 79.0 77.5 | 79.3 76.5 | 79.2 76.2 | 78.6 76.4 | 76.7 76.1 | 76.2 76.0 | 77.2 7 6. 5 | 77.4 76.6 | 77.3 76.9 | |
| Wheat U.S. markets U.S. competitors | 89.9 78.4 | 89.6 76.4 | 90.4 75.6 | 93. 6 73.5 | 96.5 72.5 | 96.3 72.8 | 94.6 72.8 | 94.5 73.2 | 95.8 73.9 | 98.1 74.1 | 97.1 74.2 | |
| Soybeans U.S. markets U.S. competitors | 70.4 75. 6 | 89.4 89.2 | 69.9 66.9 | 68.4 63.9 | 67.0 64.3 | 66.1 64.7 | 64.1 64.9 | 63.5 65.1 | 64 .5 65 .3 | 64.8 65.5 | 64.2 65.8 | |
| Corn U.S. markets U.S. competitors | 74.8 81.6 | 73.3 75.8 | 74.0 74.5 | 74.7 71.1 | 73.8 70.2 | 72.3 70.4 | 70.0 69 .7 | 89.8 89.4 | 70.8 70.4 | 71.0 71.2 | 70.4 71.2 | |
| Ootton U.S. markete U.S. competitore | 78.0. 83.6 | 76.8 83.0 | 77.8 81.5 | 76 5 88.3 | 76.0 90.0 | 74.9 89.3 | 73.2 88.2 | 73.1 86 3 | 74.4 85.4 | 74.6 84.1 | 74.3 84.1 | |

^{1/} Real Indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets P = preliminary.

Information contact: Tim Baxter, David Stallings (202) 219-0718.

Table 29.—Trade Balance

| | Flacal year 1/ | | | | | | | | |
|---|--------------------------------|--------------------------------|---|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------|---------------------------|
| | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 F | 1990 |
| | | | | | \$ million | 1 | | | |
| Exports Agricultural Nonagricultural Total 2/ | 38,027 170,014 208,041 | 31,201 179,236 210,437 | 2 0 ,312 1 79 ,291 205, 0 03 | 27,876 202,911 230,787 | 35,316 258,656 293,972 | 39,637 301,222 340,859 | 40,182 325,928 386,110 | 37,000 | 3,164 28,449 31,613 |
| Importe Agricultural Nonagricultural Total 3/ | 18,916 297,736 316,652 | 19,740 313,722 333,462 | 20,884 342,846 363,730 | 20,650 367,3 7 4 388,024 | 21,014 409,138 430,152 | 21,477 441,074 462,551 | 22,514 458,147 480,661 | 22,500 | 1,810 37,271 39,081 |
| Trade balance Agricultural Nonagricultural Tolal | 19,111 -127,722 -108,611 | 11,481 -134,486 -123,025 | 5,428 -163,555 -158,127 | 7,226 -164,463 -157,237 | 14,302 -150,482 -136,180 | 18.160 -139,852 -121,692 | 17.668 -132,219 -114.551 | 14,500 | 1,354 -8,822 -7,468 |

^{1/} Fiscal years begin October 1 & end September 30. Fiscal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. 2/ Domestic exports including Department of Defense shipments (F.A.S., value). 3/ Imports for consumption (customs value). F = forecast. — = not available.

Information contact: Stephen MacDonald (202) 219-0822.

Table 30.—U.S. Agricultural Exports & Imports

| | | Fiecal y | ear* | Dec | | Fiecal y | ear* | Dec |
|---|--|--|---|--------------------------------------|--|--|----------------------------|-------------------------------------|
| | 1989 | 1990 | 1991 F | 1990 | 1989 | 1990 | 1991 F | 1990 |
| EXPORTS | | | 1,000 Units | | | | \$ million | |
| Animals, live (no.) 1/ Meats & preps., excl. poultry (mt) | 758 869 | 685 676 | 2/ 700 | 69 70 | 475 2.355 | 381 2,457 | = | 56 213 |
| Dairy products (mt) 1/ Poultry meats (mt) Fats, oils, & greases (mt) | 192 428 1,377 | 92 567 1,264 | 1,100 | 2 45 105 | 475 510 531 | 348 631 450 | 400 | 17° 53 38 |
| Hides & skins incl. furskins Cattle hides, whole (no.) 1/ Mink pelts (no.) 1/ | 26,2 0 0 3,073 | 24,777 5,128 | = | 1,835 | 1,713 1,360 91 | 1.796 1,365 116 | Ξ | 121 100 3 |
| Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) | 114,892 37,641 1,176 3,041 | 112.987 27,999 882 2,501 | 26.500 1,000 2,400 | 7,150 1,535 89 293 | 16.829 6,004 255 955 | 15.694 4,209 203 829 | 3/12.600 4/3,000 700 | 920 179 15 77 |
| Feed grains, incl. products (mt) Feeds & fodders (mt) Other grain products (mt) | 80.958 11.086 790 | 69.510 11,125 970 | 54,800 6/11,500 | 4,344 838 51 | 7,374 1,849 514 | 8,093 1,826 665 | 8,000 | 450 145 45 |
| Fruits, nuts, & preps. (mt) Fruit juices Incl. | 2.555 | 2,873 | _ | 249 | 2.394 | 2,789 | _ | 243 |
| froz. (1,000 hectoliters) 1/ Vegetables & preps. (mt) | 4,997 1,865 | 5,975 2,243 | Ξ | 528 239 | 264 1,542 | 328 2.079 | === | 29 210 |
| Tobacco, unmanufactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or beet (mt) | 212 1,441 511 368 | 220 1,666 576 447 | 1,800 | 31 187 48 44 | 1,274 2,040 507 134 | 1,373 2,704 576 187 | 1:400 3.000 600 | 193 283 70 17 |
| Oileeeds & products (mt) Oileeeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) | 21,052 14,592 14,093 4,963 1,498 | 23,772 17,703 17,217 4,767 1,302 14 | 15,400 | 2,009 1,542 1,502 401 65 | 6.629 4,363 4,085 1,358 908 171 | 6,098 4,246 3,939 1,022 830 182 | 3.500 | 497 370 343 81 48 16 |
| Other | 106 | 89 | _ | ė | 1,802 | 2.120 | | 185 |
| Total | 145,481 | 147,686 | 131,000 | 10,168 | 39.637 | 40.182 | 37.000 | 3,164 |
| IMPORTS | | | | | *** | | | |
| Animals, tive (no.) 1/ Meate & preps., excl. poultry (mt) Beef & veal (mt) Pork (mt) | 2.485 1,091 668 371 | 2,940 1,142 754 340 | 750 370 | 318 96 67 25 | 740 2,432 1,525 778 | 1.053 2,848 1.842 888 | 1,100 1,800 1,000 | 116 239 181 68 |
| Dairy products (mt) 1/ Poutry & products 1/ Fats, oils, & greases (mt) Hides & skins, incl. furskins 1/ Wool, unmanufactured (mt) | 211 14 62 | 254 19 47 | = | 18 2 3 | 834 130 14 241 319 | 129 15 135 187 | 900 | 68 7 2 12 10 |
| Grains & feeds (mt) | 3,467 | 3,471 | 3,500 | 342 | 1,139 | 1,181 | 1,200 | 102 |
| Fruite, nuts, & preps., excl. juices (mt) Banance & plantains (mt) Fruit juices (1,000 hectoliters) 1/ | 5.036 3,039 27,747 | 5.331 3,236 33, 922 | 5,300 3,200 30,000 | 421 268 2,703 | 2,269 851 792 | 2,486 926 1,001 | 1,000 | 208 77 66 |
| Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ | 2,217 169 13 158 | 2,242 193 30 171 | 180 | 192 10 1 8 | 1,959 521 8 187 | 2,264 588 20 164 | 2,100 800 200 | 187 32 1 13 |
| Sugar, cane or beet (mt) | 1,657 | 1,789 | = | 91 | 488 620 | 51 9 734 | | 43 38 |
| Oilseeds & products (mt) Oilseeds (mt) Protein meal (mt) Vegetable oils (mt) | 1,917 424 359 1,133 | 2,034 534 310 1,189 | ======================================= | 158 34 23 101 | 946 159 65 721 | 964 206 48 710 | 1,000 | 75 11 3 61 |
| Beverages excl. fruit Juices (1,000 hectoliters) 1/ | 13.967 | 13,543 | _ | 997 | 1.815 | 1,867 | _ | 147 |
| Coffee, tea, cocos, spices Coffee, Incl., products (mt) Cocos beans & products (mt) | 1,867 1,084 564 | 2.202 1,290 698 | 3,200 1,200 650 | 165 99 49 | 3,896 2,467 969 | 3,465 1,997 1,042 | 2.000 | 275 162 80 |
| Rubber & allied gums (mt) Other | 927 | 840 | 850 | 76 | 1.051 1.097 | 712 1,229 | 700 | 64 108 |
| Total | | | _ | | 21,477 | 22,514 | 22,500 | 1,810 |
| | | | | | 2.,,,,, | | | |

^{*}Fiscal years begin Oct. 1 & and Sept. 30. Fiscal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. 1/ Not included in total volume and also other dairy Products for 1989 & 1990. 2/ Forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Fiscal 1990 exports of categories used in the 1991 forecasts were 2/ 676,000 m , tons. 3/ 16,014 million. 4/ 4,426 million (i.e. includes flour. 6/ 11,065 million m. tons. F = forecast. — = not svaliable.

Information contact: Stephen MacDonald (202) 219-0822.

Table 31.—U.S. Agricultural Exports by Region

| | | Fiecal year | · er | Dec | Chan | ge from yea | r* parlier | Dec |
|---|---|--|-------------------------------------|---|---|---|---------------------------------|--|
| Region & country | 1989 | 1990 | 1991 F | 1990 | 1989 | 1990 | 1991 F | 1990 |
| | | \$ | million | | | -1 | Percent | |
| WESTERN EUROPE European Community (EC-12) Belgium-Luxembourg France Germany, Fed. Rep. Italy | 7.074 6,565 431 474 918 609 | 7,331 6,838 431 469 1,098 704 | 7.300 6,800 — | 805 757 49 68 154 92 | -12 -12 1 -16 -28 -15 | 4 4 0 -1 19 16 | - - - | 8 7 8 38 61 11 |
| Netherlands United Kingdom Portugal Spain, incl. Canary Islands | 1,847 736 307 876 | 1,637 761 338 991 | Ξ | 158 83 26 91 | -12 -10 -10 3 | -11 3 10 13 | Ē. | -15 12 -21 -16 |
| Other Western Europe Switzerland | 510 196 | 493 171 | 500 | 48 17 | -2 -14 | -3 3 | 0) | 27 33 |
| EASTERN EUROPE German Dem Rep. Pokand Yugoslavia Romania | 422 72 45 76 62 | 533 58 101 129 210 | 500 | 28 0 2 14 0 | -24 8 -73 -26 -33 | 26 -20 127 69 239 | <u>\$</u> | 43 -100 -60 382 -99 |
| USSA | 3,299 | 3,989 | 1,600 | 56 | 70 | -0 | -47 | -86 |
| ASIA West Asia (Mideast) Turkey Iraq Israel, Incl. Gaza & W. Bank Saudi Arabia | 18,677 2.273 238 791 331 482 | 18,131 1,995 259 497 285 502 | 16.600 | 1,376 124 17 0 19 65 | 17 19 97 8 -1 4 | -3 -12 9 -37 -14 | -100 20 | -15 -43 -31 -100 27 22 |
| South Asia Bangladesh India Pakistan China Japan | 1,161 213 243 599 1,496 8,148 | 729 125 115 391 909 8,100 | 200 700 7,900 | 12 4 7 2 39 707 | 44 98 -31 117 144 12 | -37 -41 -53 -35 -39 -1 | -50 -22 -8 | -80 1,167 23 -96 -57 |
| Southeast Asia Indonesia Philippines | 976 216 344 | 1,184 277 351 | 400 | 404 26 33 | -4 -9 0 | 21 28 2 | | 51 54 196 |
| Other East Asia Taiwan Korea, Rep. Hong Kong | 4,623 1,594 2,453 575 | 5,207 1,818 2,703 685 | 4,800 1,800 2,300 700 | 390 138 187 64 | 7 1 2 18 | 13 14 10 19 | -12 -11 -15 0 | -24 -41 -17 25 |
| AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa | 2,280 1,796 216 549 955 483 30 57 | 2,009 1,524 166 488 761 484 32 81 | 1,700 1,300 500 700 400 | 112 81 15 24 40 31 3 | 0 8 12 2 21 -21 -31 -34 | -12 -15 -23 -11 -20 0 7 43 | -15 -13 0 -13 0 | -36 -43 -46 -40 -22 -10 13 |
| LATIN AMERICA & CARIBBEAN Brazii Caribbean Islande Central America Colombia Mexico Peru Venezuela | 5.437 149 1,007 448 139 2,755 81 587 | 5,156 105 1,006 464 147 2,668 187 345 | 2,500 | 454 57 83 48 8 190 18 26 | 24 -15 16 8 -22 -50 -54 -2 | -5 -30 0 4 6 -3 132 -41 | -2 100 -7 -7 33 | 10 392 -9 75 -28 -4 -38 -12 |
| CANADA | 2.179 | 3,716 | 4,000 | 301 | 10 | 71 | 481 | 74 |
| OCEANIA Total | 268 39 ,63 7 | 317 40,182 | 300 38,500 | 30 3,164 | 13 12 | 1 <u>8</u> 1 | 4 | -10 -11 |
| Developed countries | 17,997 | 19,760 | 20.100 | 1,859 | 1 | 10 | 541 | .14 |
| Less developed countries | 16.423 | 15,970 | 15,300 | 1,182 | 14 | -3 | -11 | -18 |
| Centrally planned countries | 5.217 | 4,431 | 3,100 | 123 | 68 | -15 | -34 | -75 |

^{*}Fiscal years begin Oct, 1 & end Sept. 30. Fiscal year 1990 began Oct, 1, 1989 & ended Sept. 30, 1990. F = forecast. — = not available.. Note: Adjusted for transshipments through Canada.

Information contact: Stephen MacDonald (202) 219-0822.

Farm Income

Table 32.—Farm Income Statistics

| | | | | | | | Calendar y | ear | | | | | |
|--|--|-------------------------------|--------------------------------|---------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------|----------------------|----------|---------------------------------------|
| | | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 \$ billion | 1987 | 1988 | 1989 | 1990 F | 19 | 191 F |
| 1. Farm fee Crops (in Livestoc Farm rei | nol, net CCC loans) k | 144.1 72.5 60.2 2.6 | 147.2 72.3 70.3 4.6 | 141.3 67.2 69.6 4.5 | 147.1 69.9 72.9 4.3 | 149.4 74.3 69.8 5.3 | 140.2 63.7 71.5 6.0 | 147.5 65.6 76.0 6.9 | 155.9 7.1.4 78.8 6.7 | 188.5 75.4 83.7 7.4 | 174 78 89 6 | 77 85 | to 176 to 81 to 89 to 7 |
| Cash pa | overnment payments yments PIK commodities | 1.9 1.9 0.0 | 3.5 3.5 0.0 | 9.3 4.1 5.2 | 8.4 4.0 4.5 | 7.7 7.8 0.1 | 11.8 8.1 3.7 | 18.7 8.8 10.1 | 14.6 7.1 7.4 | 10.9 9.1 1.7 | 8 t | 8 1 | to 10 to 9 to 1 |
| Grossica Nonmon | es farm income (4+5+6) 2/ sh income (1+2) sy income 3/ Inventory change | 166.3 146.0 13.8 6.5 | 163.5 150.6 14.3 -1.4 | 153.2 150.8 13.5 -10.9 | 170.2 155.5 8.7 6.0 | 162.9 187.2 8.0 -2.3 | 158.5 152.0 6.9 -2.4 | 189.0 184.3 7.5 -2.8 | 173.8 170.4 7.6 -4.1 | 189.2 177.5 7.3 4.4 | 194 183 8 4 | 180 | to 195 to 185 to 9 to 4 |
| 7. Cash exp 8. Total exp | | 113.2 139.4 | 112.8 140.0 | 111.0 137. 9 | 119 0 143.8 | 109.3 131.9 | 105.2 125.5 | 108.2 127.7 | 112.3 132.1 | 122 8 142.8 | 125 145 | | 10 130 10 151 |
| 9. Net cash 10. Net farm Deflated | Income (4–7) Income (3–8) (1982\$) | 32.8 28.9 28.8 | 37.9 23.5 23.5 | 39.5 15.3 14.7 | 36.8 26.3 24.5 | 47.9 31.0 27.9 | 46.7 31.0 27.3 | 50.1 41.3 35.2 | 58.1 41.8 34.4 | 54.6 46.7 36.9 | 58 49 37 | 42 | to 58 to 47 to 34 |
| 11. Off-farm | income | 35.8 | 38.4 | 37.0 | 39.2 | 55.2 | 54.5 | 56.9 | 57. 7 | 57.5 | _ | | |
| 12. Loan ch 13. | anges 5/: Real estate 5/: Non-real estate | 9.0 5.5 | 3.8 3.4 | 2.3 0.9 | -2.0 -0.8 | -6.4 -9.8 | -8.7 -11.0 | -7.7 -4.6 | -4.t -0.3 | -2.1 0.1 | _ | | |
| | ncome pius monetary change expenditures 6/ | 8.4 16.8 | 5.4 13.3 | 5.4 12,7 | 9.2 12.5 | 9.1 9.2 | 8.0 8.5 | 8.8 11.1 | 7:5 11.1 | 8.2 13.0 | Ξ | | |
| 18. Net cast | n flow (9+12+13+14-15) | 37.8 | 38.2 | 35.3 | 30.4 | 31.9 | 28.8 | 39.5 | 60.2 | 48.0 | _ | | _ |

1/ Income from machine hire, custom work, sales of forest products, & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of flems required to calculate a given item. 3/ Value of home consumption of self-produced food & imputed gross rental value of farm dwellings. 4/ Excludes capital consumption, periquisities to hired labor, & farm household expenses. 5/ Excludes farm households. Total may not add because of rounding. Fix forecast. —=not available.

Information contact: Diane Berteleen (202) 219-0809.

Table 33.—Balance Sheet of the U.S. Farming Sector _

| | | Calendar year 1/ | | | | | | | | | | | | |
|--|-------|------------------|-------|-------|-------|------------|---------------|-------|-------|--------|------|--------|--|--|
| | 1981 | 1962 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 F | 11 | 991 F | | |
| | | | | | | \$ billion | | | | | | | | |
| Assets | | | | 27 | | | | | | | | | | |
| Real estate | 784.7 | 748.8 | 758.2 | 810.3 | 540.8 | 507.3 | 525.4 | 555.4 | 677.6 | 595 | 000 | to 810 | | |
| Non-real estate | 197.7 | 198.4 | 191.9 | 198.9 | 187.5 | 182.8 | 193.7 | 208.1 | 216.3 | 223 | 220 | to 230 | | |
| Livestock & poultry Machinery & motor | 53.5 | 53.0 | 49.5 | 49.5 | 46.3 | 47.8 | 58.0 | 65.5 | 69.7 | 74 | | to 78 | | |
| vehicles | 87.0 | 87.5 | 87.4 | 86.0 | 83.8 | 81.9 | 79.4 | 80.6 | 83.5 | 86 | | | | |
| Crops stored 2/ | 29.0 | 26.1 | 24.0 | 26.2 | 22.9 | 16.7 | 18.0 | 23.0 | 23.5 | 23 | 21 | to 25 | | |
| Purchased inputs | | _ | _ | 2.6 | 1.3 | 2.0 | 3.3 | 3.4 | 2.8 | 3 | 2 | to 4 | | |
| Financial assets | 28.2 | 29.7 | 30.9 | 32.6 | 33 3 | 34.5 | 35.1 | 35.4 | 38.8 | 38 | 36 | to 40 | | |
| Total farm accets | 982.4 | 945.2 | 950.1 | 807.2 | 728.3 | 690.1 | 719.1 | 763.5 | 793.9 | 818 | 825 | to 835 | | |
| Labilities | | | | | | | | | | - | | | | |
| Real estate debt 3/ | 98.7 | 102.5 | 104.8 | 102.8 | 96.4 | 87.7 | 79.0 | 75.8 | 73.8 | 72 | 70 | to 74 | | |
| Non-real estate debt 4/ | 83.5 | 87.0 | 87,9 | 87.1 | 77.5 | 6.66 | 62.0 | 81.7 | 61.8 | 82 | 60 | to 54 | | |
| Total farm debt | 182.3 | 189.5 | 192.7 | 189.9 | 173.9 | 154.2 | 142.0 | 137.0 | 135.6 | 134 | .131 | to 137 | | |
| Total farm equity | 800.1 | 755.7 | 767.4 | 817.4 | 554.3 | 535.9 | 577 .2 | 625.9 | 658.3 | 684 | 695 | to 705 | | |
| | | | | | | Percent | | | | | | | | |
| Selected ratios | - | | | | | | uñ. | | | | | | | |
| Debt-to-assets | 18.6 | 20.0 | 20.3 | 23.5 | 23.9 | 22.4 | 19.7 | 18.0 | 17.1 | 16 | 18 | to 17 | | |
| Debt-to-equity | 22.8 | 25.1 | 25.4 | 30.8 | 31.4 | 28.8 | 24.6 | 22.0 | 20.6 | 20 | 19 | | | |
| Debt-to-net cash income | 558 | 500 | 488 | 519 | 363 | 330 | 253 | 237 | 248 | 228 | 230 | to 240 | | |

1/ As of Dec. 31, 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC, 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacts: Ken Erickson or Jim Ryan (202) 219-0798.

Table 34.—Cash Receipts From Farm Marketings, by State

| Posies 2 | | Livestock | & producte | | | | Crope 1/ | | | | Total 1/ | |
|---|---|--|--------------------------------------|--------------------------------------|--|--|---------------------------------------|--------------------------------------|---|---|--|--|
| Region & State | 1989 | 1990 | Nov 1990 | Dec 1990 | 1989 | 1990 | Nov 1990 | Dec 1990 | 1989 | 1990 | Nov 1990 | Dec 1990 |
| | | | | | | ,\$ m | illion 2/ | | | | | |
| NORTH ATLANTIC Maine New Hampshire Vermont Massachusetts | 215 63 375 112 | 214 63 391 112 | 17 5 29 | 27 5 28 | 233 79 51 317 | 228 78 52 297 | 26 5 4 42 | 19 6 3 27 | 447 142 428: 429 | 439 141 443 409 | 43 11 33 51 | 45 11 31 36 |
| Rhode letand Connecticut New York New Jersey Pennsylvania | 13 180 1,945 197 2,595 | 13 190 2.005 200 2,707 | 1 17 153 17 205 | 1 18 152 17 249 | 66 218 911 463 986 | 237 941 478 1,076 | 4 16 80 42 107 | 15 85 30 103 | 79 404 2,857 660 3,581 | 79 428 2.945 678 3,783 | 5 33 233 58 312 | 11 31 237 47 352 |
| NORTH CENTRAL Ohio Indiana Illimois Michigan | 1,698 1,817 2,262 1,313 | 1,872 2,048 2,568 1,432 | 160 191 212 112 | 154 158 2 09 113 | 2.114 2.502 4,458 1,627 | 2,251 2,848 5,324 1,713 | 300 193 518 243 | 217 312 377 193 | 3.812 4.318 6.710 2,940 | 4,123 4,896 7,892 3,145 | 480 384 730 355 | 371 470 846 307 |
| Wisconsin Minnesota Jowa Missouri | 4,337 3,716 5,209 2,168 | 4,576 4,082 6,048 2,401 | 327 356 587 270 | 336 358 664 185 | 941 2,809 3,911 1,732 | 1,047 3,174 4,469 1,635 | 141 333 496 187 | 96 401 322 122 | 5,278 6,526 9,119 3,900 | 5.622 7.256 10,516 4,037 | 459 590 1.083 456 | 434 759 986 307 |
| North Dakota South Dakota Nebraska Kansas | 842 2,108 5,643 4,245 | 685 2,352 6,042 4,508 | 99 271 567 342 | 49 328 576 402 | 1,465 884 2,878 2,079 | 1,775 1,046 2,823 2,182 | 248 101 452 234 | 179 104 277 219 | 2,108 2,992 8,521 6,324 | 2.450 3.300 8,864 6.600 | 347 372 1.019 576 | 228 432 853 621 |
| SOUTHERN Delaware Maryland Virginia West Virginia | 503 870 1,372 250 | 452 857 1,434 249 | 31 57 144 24 | 36 58 88 18 | 160 476 685 64 | 183 503 718 55 | 21 66 82 7 | 10 33 53 6 | 663 1,346 2,058 314 | 645 1,360 2,162 314 | 62 123 227 31 | 45 91 141 24 |
| North Carolina South Carolina Georgia Florida Kentucky Tennesses | 2,505 *551 2,270 1,221 1,670 1,060 | 2,550 567 2,200 1,289 1,774 1,164 | 233 53 154 113 280 97 | 224 45 159 98 110 110 | 2,046 675 1,598 4,982 1,258 861 | 2.164 584 1,568 4,240 1.414 908 | 184 51 130 226 366 195 | 111 39 99 396 276 118 | 4.551 1.225 3.869 6.203 2.928 1.921 | 4.714 1.150 3.768 5.529 3.188 2,072 | 417 103 284 339 646 292 | 335 84 258 494 387 228 |
| Alabama Mississippi Arkansas Louisiana Oklahoma Texas | 1.932 1.292 2,661 614 2,409 6.863 | 1,940 1,288 2,537 636 2,604 7,494 | 132 89 191 52 222 672 | 128 91 170 43 171 546 | 1,000 1,470 1,048 1,185 3,897 | 967 1,099 1,543 1,265 1,135 4,016 | 79 238 370 244 96 478 | 57 167 156 240 54 | 2.628 2.292 4.131 1.661 3,594 10.760 | 2,607 2,387 4,080 1,902 3,739 11,510 | 211 327 561 296 318 1,150 | 185 257 326 283 225 986 |
| WESTERN Montana Idaho Wyoming Colorado | 899 1,048 569 2,649 | 915 1,107 719 2,803 | 182 95 121 287 | 78 99 71 246 | 710 1,670 188 1,250 | 749 1,703 159 1,176 | 87 231 45 163 | 70 164 27 119 | 1,610 2,715 856 3,899 | 1,864 2,810 879 3,979 | 269 326 187 430 | 148 263 98 365 |
| New Mexico Arizona Utah Nevada | 974 744 574 141 | 1.050 782 603 141 | 180 54 61 9 | 72 78 52 10 | 450 1.158 174 94 | 450 1.004 168 100 | 55 107 13 11 | 40 148 17 11 | 1,424 1,902 748 235 | 1.500 1.785 771 241 | 235 181 74 20 | 112 1222 68 21 |
| Washington Oregon California Alaska Hawaii | 1,201 739 5,093 9 | 1,306 779 5,301 9 | 97 88 395 1 8 | 101 60 544 1 8 | 2,438 1,558 12,422 20 495 | 2,447 1,532 11,729 20 491 | 254 176 1,315 2 41 | 227 112 884 2 41 | 3,639 2,297 17,515 29 587 | 3.752 2,311 17,030 29 583 | 350 164 1,710 3 49 | 327 172 1,428 3 49 |
| UNITED STATES | 63,724 | 89,161 | 8.051 | 7,608 | 75.449 | 77.535 | 9,108 | 7.233 | 159.173 | 166,696 | 17,157 | 14,841 |

1/ Sales of farm products include receipts from commodities placed under CCC loans minus value of redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0808.

Table 35.—Cash Receipts From Farming

| | Annual 198 | | | 1989 | | 1990 | | | | | | |
|------------------------------|------------|---------|---------|---------|---------|------------|--------|--------|--------|--------|--------|--------|
| | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | Dec | Aug | Sept | Oct | Nov | Dec |
| | | | | | | \$ million | | | | | | |
| Farm marketings & CCC toans* | 144,114 | 135.197 | 141,653 | 150,192 | 159,173 | 186,696 | 14,276 | 13.214 | 14,641 | 19,055 | 17,157 | 14,841 |
| Livestock & products | 69.822 | 71,539 | 76.010 | 78.821 | 83,724 | 89,161 | 7.063 | 7.457 | 7.882 | 8,250 | 8.051 | 7,608 |
| Meat animals | 38.550 | 39.081 | 44,478 | 45,884 | 48,591 | 61.693 | 3,786 | 4,278 | 4,543 | 5,279 | 5.021 | 4.098 |
| Dairy products | 18.055 | 17.724 | 17.727 | 17,641 | 19,401 | 20,156 | 1,924 | 1.756 | 1,661 | 1,583 | 1,494 | 1.519 |
| Poultry & eggs | 11.209 | 12.701 | 11.517 | 12,867 | 15,346 | 14,980 | 1,201 | 1.257 | 1.268 | 1.231 | 1,226 | 1,240 |
| Other | 2,008 | 2.034 | 2.288 | 2,429 | 2,386 | 2.352 | 153 | 167 | 211 | 157 | 311 | 151 |
| Crops | 74.293 | 63,658 | 66,643 | 71.372 | 76,449 | 77,535 | 7,213 | 6,757 | 6,859 | 10,805 | 9,106 | 7,233 |
| Food grains | 8,990 | 5.741 | 5.780 | 7,484 | 8.073 | 7,966 | 641 | 897 | 724 | 723 | 890 | 482 |
| Feed crops | 22.591 | 16.912 | 14.543 | 14,305 | 16.656 | 18,991 | 1,732 | 1,297 | 1,098 | 2.769 | 2.254 | 1,796 |
| Cotton (lint & seed) | 3,687 | 3.371 | 4,189 | 4,548 | 4,740 | 6,067 | 901 | 220 | 316 | 699 | 1,016 | 993 |
| Tobacco | 2,699 | 1.921 | 1,826 | 1.980 | 2.381 | 2,701 | 227 | 438 | 486 | 420 | 438 | 318 |
| Oil-bearing crops | 12.475 | 10.614 | 11.294 | 13.537 | 12,172 | 12,432 | 1,048 | 542 | 1.067 | 3,088 | 1,637 | 1,074 |
| Vegetables & melons | 8.572 | 0,849 | 9.889 | 9,764 | 11,340 | 11,178 | 480 | 1,029 | 1,263 | 1.176 | 552 | 493 |
| Fruite & tree nute | 6.946 | 7.248 | 8,058 | 9,139 | 9,020 | 7,978 | 945 | 696 | 942 | 951 | 941 | 828 |
| Other | 8.333 | 9.002 | 10,064 | 10,005 | 11.068 | 11,223 | 1.241 | 636 | 966 | 979 | 1,579 | 1,250 |
| Government payments | 7,704 | 11,813 | 16.747 | 14,480 | 10.887 | 9,067 | 649 | 8-8 | 119 | 24 | 1,625 | 1,817 |
| Total | 151,818 | 147.010 | 158,400 | 164,672 | 170,000 | 176,763 | 14,926 | 13,110 | 14,422 | 19.079 | 18.782 | 18,658 |

[&]quot;Receipts from loans represent value of commodities placed under CCC loans minus value of redemptions during the month."

Information contact: Roger Strickland (202) 219-0806.

Table 36.—Farm Production Expenses_

| | | | | | Cel | endar year | | | | | | |
|---|-----------------|------------------|------------------|------------------|-----------------|-----------------|------------------|--------------------------|------------------|------------------|-----------------|-----------------|
| | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 F | 1 | 1991 F |
| | | | | | | \$ million | | | | | | |
| Feed Livestock | 20.655 | 18.592 | 20,371 8,818 | 20.239 | 17.247 9.184 | 17.876 9.758 | 17,958 11,842 | 20.620 12.812 | 22.722 12.983 | 22.000 14.000 | 20,000 | |
| Seed | 3,428 | 3.172 | 2.690 | 3,386 | 3,128 | 3,188 | 3.259 | 3,268 | 3.733 | 4,000 | 3,000 | |
| Ferm-origin Inputs | 33,262 | 31.447 | 31.879 | 33.112 | 29,659 | 30,821 | 33.059 | 36,700 | 39,438 | 40,000 | 38,000 | |
| Fertilizer | 9,409 | 8.018 | 6.959 | 8,574 | 7,506 | 6.613 | 6,453 | 6,775 | 7,864 | 7.000 | 8.000 | 10 9.000 |
| Fuel & olie | 0.570 | 7,734 | 7,211 | 7,296 | 6,438 | 6.310 | 4,957 | 4.921 | 5.321 | 6.000 | 5.000 | lo 7.000 |
| Electricity Posticides | 1,747 | 2,041 4,282 | 1.982 3.870 | 2,000 | 1.878 | 1,795 | 2,166 | 2.231 | 2.100 | 2.000 | 2.000 | |
| Manufactured Inputs | 4.201 23,927 | 22.076 | 20.022 | 4,688 22.618 | 4.334 20,153 | 4.324 18,242 | 4.512 18,077 | 4,443 18,370 | 5.721 20,697 | 6,000 21,000 | 5,000 21.000 | |
| Short-term Interest | 10.722 | 11,349 | 10,815 | 10.396 | 8.735 | 7,920 | 7,305 | 7.287 | 7,480 | 7,000 | 7,000 | to 8.000 |
| Real estate interest 1/ Total interest charges | 9,142 19,864 | 10,461 21,830 | 10,815 21,430 | 10,733 21,129 | 9,878 18.013 | 9.131 17.052 | 8,187 15,492 | 7,885 1 6 ,172 | 7.643 15.123 | 7.000 | 14,000 | to 8,000 |
| RePitir & maintenance 1/2/ | 7.021 | | 0.529 | 8,730 | | | | | | | | |
| Contract & hired labor | 8.931 | 6.428 10.075 | 9.725 | 9.729 | 9.556 9.799 | 0,485 0,890 | 6.828 10.821 | 6,889 11,202 | 7,794 | 8,000 12,000 | 11,000 | |
| Machine hire & custom work | 1.984 | 2,025 | 2,213 | 2.566 | 2.354 | 2,099 | 2,105 | 2.271 | 11.887 2,739 | 3,000 | 2,000 | |
| Marketing, storage, & | | | | | | | | | | | | |
| transportation | 3.623 | 4,301 | 3,904 | 4.012 | 4.127 | 3,652 | 3.988 | 3.261 | 4,214 | 5.000 | 4.000 | to 6,000 |
| Misc. operating expenses 1/ Other operating expenses | 8.909 | 7.262 | 9.089 | 9.136 | 8,198 | 8.054 | 8,902 | 9,357 | 9.857 | 10,000 | 10,000 | to 12,000 |
| | 28,369 | 30,089 | 31.461 | 32,173 | 31,034 | 30.180 | 32,644 | 33,000 | 36,491 | 38,000 | 37,000 | 10 41,000 |
| Capital consumption 1/ Taxes 1/ | 23.573 | 24,287 | 23.873 | 21,823 | 19,648 | 17.709 | 16,475 | 16,716 | 17.310 | 18,000 | | to 20,000 |
| 1 BX WW 17 | 4,248 | 4,050 | 4,123 | 4,186 | 4,484 | 4,549 | 4,982 | 6.090 | 5,328 | 5,000 | 5.000 | to 6.000 |
| Net rent to nonoperator | | | | | | | | | | | | |
| landiord | 6,184 | 0.174 | 5,110 | 8,978 | 0,435 | 6,951 | 0,964 | 7.014 | 8,181 | 8,000 | 000,8 | to 10,000 |
| Other overhead expenses | 34,003 | 34,511 | 33,108 | 34,787 | 32.567 | 29,209 | 28.420 | 28,820 | 30.819 | 32.000 | 31.000 | 10 35,000 |
| Total Production expenses | 139,444 | 139,954 | 137.897 | 143.819 | 131,925 | 125.503 | 127,693 | 132,063 | 142,586 | 145,000 | 146,000 | to 151,000 |

^{1/} includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other livestock purchases & dairy assessments. Totals may not add because of rounding. F = forecast.

Information contacts: Chris McGath (202) 219-0804, Diana Bertelsen (202) 218-0809.

Table 37.—CCC Net Outlays by Commodity & Function

| | | | | | FI | lecal year | | | | |
|--|--------|-------|--------|--------|--------|------------|--------|--------------|--------|--------|
| | 1963 | 1964 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 E | 1992 E |
| | | | | | | \$ million | | | | |
| COMMODITY/PROGRAM | | | | | | | | | | |
| Feed grains | | | | | | | | | | |
| Com | 5,720 | -934 | 4.403 | 10,524 | 12.346 | 8.227 | 2.663 | 2,450 | 2.364 | 2,865 |
| Grain sorghum | 814 | 76 | 483 | 1,185 | 1,203 | 784 | 467 | 361 | 298 | 262 |
| Barley | 268 | 69 | 338 | 471 | 394 | \$7 | 45 | -83 | 53 | 125 |
| Oate | 11 | 5 | 2 | 26 | 17 | -2 | 1 | -6 | 14 | 18 |
| Com & out products | 2 | 6 | 7 | 5 | 7 | 7 | | | 5 | - 6 |
| Total feed grains | 8,815 | -758 | 5,211 | 12,211 | 13.967 | 9,053 | 3,384 | 2,721 | 2,737 | 3.073 |
| Wheat | 3,419 | 2,636 | 4,691 | 3,440 | 2,836 | 678 | 53 | 806 | 2.847 | 2.519 |
| Rica | 664 | 333 | 990 | 947 | 906 | 1 28 | 631 | 867 | 818 | 775 |
| Upland cotton | 1,363 | 244 | 1.553 | 2,142 | 1,786 | 000 | 1,481 | -70 | 389 | 823 |
| Tobacco | 880 | 346 | 455 | 253 | -340 | -453 | -367 | -307 | -217 | -85 |
| Delry | 2,528 | 1.502 | 2,085 | 2,337 | 1,100 | 1.295 | 679 | 506 | 665 | 392 |
| Soybeans | 288 | -585 | 711 | 1,597 | -476 | -1.676 | -86 | 5 | 22 | -21 |
| Peanute | -6 | 1 | 12 | 32 | | 7 | 13 | 1 | 3 | -3 |
| Super | 49 | 10 | 184 | 214 | 85 | -248 | -25 | 15 | 9 | -26 |
| Sugar | | | | | | | | | | |
| Honey | 48 | 90 | 81 | 89 | 73 | 100 | 42 | 47 | 46 | 25 |
| Wool | 94 | 132 | 109 | 123 | 162 | 1/ 5 | 93 | 104 | 175 | 175 |
| Operating expense 3/ | 326 | 362 | 346 | 457 | 535 | 614 | 620 | 618 | 721 | 773 |
| interest expenditure | 3,525 | 1.064 | 1,435 | 1.411 | 1.219 | 425 | 96 | 632 | 604 | 460 |
| Export programs 4/ 1989/89 Disaster/ | 398 | 743 | 134 | 102 | 276 | 200 | -102 | -34 | 1.258 | 1,053 |
| Livestock Assistance | 0 | 0 | 0 | 0 | 0 | 0 | 3.919 | 2/ 161 | 91 | 0 |
| Other | -1,642 | 1,295 | -314 | 486 | 371 | 1.695 | 110 | 609 | 890 | 1,126 |
| Total | 18.851 | 7.315 | 17.683 | 25.841 | 22,408 | 12.461 | 10,523 | 6.471 | 10.844 | 11,079 |
| FUNCTION | | | | | | | | | | |
| Price-support loans (net) | 8.438 | -27 | 6.272 | 13,628 | 12,199 | 4.579 | -926 | -399 | 201 | 458 |
| Direct payments 5/ | | | | | , | ., | | | | |
| Deficiency | 2,780 | 612 | 6,302 | 6,166 | 4.833 | 3.971 | 5.798 | 4,178 | 0,117 | 6,574 |
| Diversion | 705 | 1,504 | 1,525 | 64 | 382 | 8 | -1 | 0 | 0 | 0 |
| Dairy termination | 0 | 0 | 0 | 489 | 587 | 260 | 188 | 189 | 100 | 11 |
| Other | 0 | 0 | 0 | 27 | 60 | 0 | 42 | 3 | 12 | 12 |
| Dieaster | 115 | 1 | 0 | 0 | 0 | | 4 | 0 | 0 | 0 |
| Total direct payments | 3,600 | 2.117 | 7.827 | 6.746 | 5.862 | 4,245 | 6.011 | 4.370 | 8,229 | 6.597 |
| 1988/89 crop disaster | o | 0. | 0 | 0 | 0 | 0 | 3,386 | 2/ 6 | 6 | 0 |
| Emergency livestock/ | _ | | | _+ | 51 | | | 3 | | |
| lorage assistance | 0 | 0 | 0 | 0 | ď. | .31 | 633 | ⊬f 56 | 86 | 0 |
| Purchases (nat) | 2.540 | 1,470 | 1,331 | 1.670 | -479 | -1,131 | 116 | 48 | 381 | -512 |
| Producer storage | | | | | | | | | | |
| payments | 984., | 268 | 329 | 485 | 832 | 658 | 174 | 185 | 26 | 0 |
| Processing, storage, & transportation | 865 | 639 | 857 | 1,013 | 1,659 | 1.113 | 659 | 317 | 305 | 202 |
| | | | | | - | | | | | |
| Operating expense 3/ | 328 | 362 | 346 | 457 | 635 | 614 | 620 | 618 | 721 | 773 |
| Interset expenditure | 3,525 | 1.064 | 1,435 | 1,411 | 1,219 | 425 | 98 | 632 | 804 | 480 |
| Export programs 4/ | 398 | 743 | 134 | 102 | 276 | 200 | -102 | -34 | 1,256 | 1,053 |
| Other | -1.607 | 679 | -648 | 320 | 305 | 1.727 | -46 | 009 | 1.930 | 1,004 |
| Total | 18.851 | 7.315 | 17.663 | 25.841 | 22,408 | 12,461 | 10.523 | 6,471 | 10.844 | 11.079 |

^{1/} Flecal 1988 wool & mohair program outlays were \$130,635,000 but include a one-time advance appropriation of \$120,108,000, which was recorded as a wool program receipt by Treesury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates & were not recorded directly as disaster assistance outlays. 3/ Does not include CCC Transfers to General Sales Manager. 4/ Includes Export Querantee Program. Export Quarantee Program—Credit Reform, Direct Export Credit Program, Market Promotion Program, & CCC Transfers to the General Sales Manager. 6/ Includes cash payments only. Excludes payment-in-kind in fiscal 83–85 & generic certificates in fiscal 86–60. E = Estimated in the fiscal 1992 President's Budget based on November, 1990 supply & demand astimetes. Minus (-) Indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 447-5148.

Food Expenditures

Table 38.—Food Expenditure Estimates

| | | Annual | | | 1990 | | 1990 year-to-dat | |
|---|--------------------|--------------------|--------------------|--------------|--------------|------------------|------------------|----------------|
| | 1988 R | 1989 R | 1990 R | Nov | Dec | Jan P | Nov | Dec |
| Sales 1/ | | | | \$ bill | ion | | | |
| Off-premise use 2/ Meals & enecks 3/ | 255,096 196,452 | 272.076 205,927 | 266,292 218.144 | 24.1 17.7 | 25.9 18.1 | 23.3 16.5 | 200.4 200.1 | 286.3 218.1 |
| Sales 1/ | | | | 1990 | \$ billion | | | |
| Off-premies use 2/ Meals & en soks 3/ | 288,929 215,162 | 269.462 215,625 | 286,225 218,064 | 23.8 17.4 | 25.0 17.8 | 22.6 16.2 | 200.8 200.3 | 286.2 218.1 |
| Releast! | | | Pr | rcent chang | e from year | r earlier (\$ bi | 1.) | |
| Sales 1/ Off-premise use 2/ Meals & snacks 3/ | 4.0· 0.7· | 0.7 4.8 | 5.2 5.9 | 5.7 6.3 | 2.0 4.8 | 5.2 2.4 | 5.5 6.0 | 5.2 5.9 |
| | | | Pr | rcent chang | e from year | earlier (199 | 0 \$ bil.) | |
| Sales 1/ Off-premise use 2/ Meals & snacks 3/ | -0.1 4.7 | 0.2 | -1.1 1.1 | -0.6 1.6 | -2.7 0.3 | 1.1 -1.7 | -1.0 1.2 | -1.1 1.1 |

1/ Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production, 3/ Excludes donations, child autrition subsidies, & meals furnished to employees, patients, & inmates. P = preliminary.

NOTE: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food not alcoholic beverages & pet food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual retes; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to amployees; (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & antertainment. For a more complete discussion of the differences, see "Developing an integrated information System for the Food Sector, "Agr.-Econ. Rpt. No. 575, Aug 1987.

Information contact: Alden Manchester (202) 219-0880.

Transportation

Table 39.—Rail Rates; Grain & Fruit/Vegetable Shipments

| | | Annual 1990 | | | | | | 19 | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|--|--|
| | 1988 | 1989 | 1990 | Jan | Aug | Sept | Oc1 | Nov | Dec | Jan |
| Reli freight rete Index 15 (Dec. 1984-100) All products Farm products Grain Food products | 104.8 105.0 105.4 103.2 | 108.4 108.4 108.7 103.9 | 107.5 110.4 110.1 106.3 | 107.1 109.3 109.1 108.8 | 107.3 110.8 110.6 104.e | 107.3 111.0 110.8 104.7 | 107.9 P 112.1 P 111.4 P 105.5 P | 108.6 P 111.9 P 111.5 P 106.7 P | 108.6 P 111.9 P 111.6 P 106.7 P | 108.5 P 111.6 P 111.1 P 106.5 P |
| Grain shipments Sail carloadings (1,000 cars) 2/ Fresh fruit & vegetable shipments | 30.7 | 28.4 | 27.0 | 32.2 | 26.8 P | 24.0 P | 27.1 P | 27.2 P | 24.4 P | 26.6 P |
| Piggy back (1,000 cwt) 3/ 4/ Sall (1,000 cwt) 3/ 4/ Truck (1,000 cwt) 3/ 4/ | 835 807 9.879 | 502 600 9.745 | 421 530 9,645 | 467 705 7,760 | 338 183 9.038 | 409 394 8,669 | 320 423 9.062 | 352 537 9,735 | 341 606 9,360 | 277 495 8,251 |
| Cost of operating trucks hauling produce &/ Owner operator (cts./mile) Fleet operation (cts./mile) | 118.7 118.4 | 124.1 123.4 | 131,0 130.6 | 128.9 128.7 | 133 9 135.5 | 135.4 135. t | 138.2 137.5 | 136 B 136.4 | 135 9 135.4 | 136.4 135.9 |

^{1/} Department of Labor, Bureau of Labor Statistics. 2/ Weekly everage: from Association of American Baltroade. 3/ Weekly everage; from Agricultural Marketing Service, USDA.
4/ Preliminary data for 1989 & 1990. 6/ Office of Transportation, USDA. P = preliminary.

Information contact: T.Q. Hutchinson (202) 219-0840.

Indicators of Farm Productivity

Table 40.—Indexes of Farm Production Input Use & Productivity¹

| | 1981 | 1982 | #983 | 1984 | 1985 | 1988 | 1987 | 1988 | 1989 | 1990 2/ |
|--|------|---------------|------|------|------|---------|------|------|------|---------|
| | | | | | 1 | 977=100 | | | | |
| Farm output | 118 | 116 | 96 | 112 | 118 | 111 | 110 | 102 | 114 | 117 |
| All live@tock products 3/ | 109 | 107 | 109 | 107 | 110 | 110 | 113 | 116 | 118 | 117 |
| Meat animal≠ | 108 | 101 | 104 | 101 | 102 | 100 | 102 | 105 | 104 | 101 |
| Dairy products | 108 | 110 | 114 | 110 | 117 | 118 | 118 | 118 | 117 | 120 |
| Poultry & eggs | 119 | #19 | 120 | 123 | 128 | 133 | 144 | 148 | 153 | 166 |
| All crops 4/ | 117 | 117 | 88 | 111 | 118 | 109 | 108 | 92 | 107 | 112 |
| Feed grains | 121 | 122 | 67 | 116 | 134 | 123 | 108 | 73 | 108 | 112 |
| Hay & forage | 108 | 109 | 100 | 107 | 108 | 108 | 102 | 89 | 101 | 101 |
| Food grain# | 144 | 138 | 117 | 129 | 121 | 107 | 107 | 96 | 107 | 138 |
| Sugar crops | 107 | 96 | 93 | 95 | 97 | 108 | 111 | 105 | 105 | 108 |
| Cotton | 109 | 85 | 55 | 91 | 94 | 89 | 103 | 107 | 86 | 102 |
| Tobacco | 108 | 104 | 75 | 90 | 81 | 63 | 62 | 72 | 71 | 84 |
| Oil crops | 114 | 121 | 91 | 100 | 117 | 110 | 108 | 89 | 108 | 102 |
| Cropland used for crops | 102 | 101 | 8-8 | 99 | 98 | 94 | 88 | 87 | 90 | - |
| Crop production per acre | 115 | 116 | 100 | 112 | 120 | 116, | 123 | 108 | 119 | _ |
| Farm input 5/ | 102 | 99 | 96 | 96 | 92 | 89 | 89 | 87 | 88 | |
| Farm real estate | 104 | 102 | 101 | 98 | 97 | 96 | 95 | 94 | 93 | _ |
| Mechanical power & machinery | 98 | 92 | 89 | 86 | 80 | 77 | 73 | 72 | 73 | _ |
| Agricultural chemicals Feed, seed, & livestock | 129 | 118 | 102 | 120 | 115 | 109 | 111 | 111 | 122 | |
| purchases | 108 | 107 | 103 | 106 | 102 | 110 | 117 | 110 | 119 | _ |
| Farm output per unit of input | 116 | 11 7 ° | 98 | 117 | 128 | 124 | 124 | 117 | 128 | _ |
| Output per hour of labor | | | | | | | | | | |
| Farm 6/ | 123 | 125 | 98 | 121 | 139 | 139 | 142 | 134 | 148 | |
| Nonfarm 7/ | 100 | 99 | 102 | 105 | 106 | 108 | 109 | 111 | 112 | |

^{1/} For historical data & Indexes, see Economic Indicators of the Farm Sector: Production & Efficiency Statistics, 1988, ECIFS 5–8. 2/ Preliminary Indexes for 1990 based on Crop Production: 1990 Summary, released in January 1991, & unpublished data from the Agricultural Statistics Board.

NASS 3/ Gross livestock production Includes minor livestock products not Included in the separate groups shown. It cannot be added to gross Grop production to compute farm output. 4/ Gross crop production includes some miscellaneous crops not in the separate groups shown.

It cannot be added to gross livestock production to compute farm output. 5/ Includes other items not included in the separate groups shown.

&/ Economic Research Service. 7/ Bureau of Labor Statistics. — = not available.

Information contact: Jim Hauver (202) 219-0432.

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